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Leu Ala Gln Lys Asn Gly Ile Ser Pro Asn Ile Gly Ile Ser Ser Arg						
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 Glu Lys Gln Asp Gln Ile Ser Gly Leu Ser Gln Ser Glu Val Lys Thr  
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 Asp Val Cys Thr Val His Leu Pro Asn Asp Phe Pro Thr Cys Leu Thr  
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 325 330 335  
 Phe Gly Asn Glu Asp Phe Asn Asn Ile Gln Asp Ser Glu Asn Asn Leu  
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Thr His Ile Glu Gln Ile	Gln Lys His Phe Ser	Glu Asp Asn Asn Glu
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Met Ile Pro Met Glu Cys	Asp Ser Phe Cys Ser	Asp Gln Asn Glu Ser
405	410	415
Glu Val Glu Pro Ser Val	Asn Ala Asp Leu Lys	Gln Met Asn Glu Asn
420	425	430
Ser Val Thr His Cys Ser	Glu Asn Asn Met Pro	Ser Ser Asp Leu Ala
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Asp Glu Lys Val Glu Thr	Val Ser Gln Pro Ser	Glu Ser Pro Lys Asp
450	455	460
Thr Ile Asp Lys Thr Lys	Lys Pro Arg Thr Arg	Ser Arg Phe His
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485	490	495
Lys Arg Pro Gln Ser Pro	Ser Pro Arg Arg Glu	Thr Gly Lys Glu Ser
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Arg Lys Ser Gln Ser Pro	Ser Pro Lys Asn Glu	Ser Ala Arg Gly Arg
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Asn Asp Gly Trp Arg Cys	Pro Arg Gly Asn Asp	Arg Tyr Arg Lys Asn
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Asp Pro Glu Lys Gln Asn	Glu Asn Thr Arg Lys	Glu Lys Asn Asp Ile
675	680	685
His Leu Asp Ala Asp Asp	Pro Asn Ser Ala Asp	Lys His Arg Asn Asp
690	695	700
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Thr Arg Asn Pro Glu Lys	Leu Lys Glu Ser His	Trp Glu Glu Asn Arg
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Asn Glu Asn Ser Gly Asn	Ser Trp Asn Lys Asn	Phe Gly Ser Gly Trp
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755	760	765
Arg Ser Ser Phe Ala Tyr	Lys Asp Gln Asn Glu	Asn Arg Trp Gln Asn
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785	790	795
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<212> DNA

<213> Homo Sapiens

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aagtccccca gaatgcagcc aatcggggct taaaagccag cgagtgggtg cagcaggtgt 2880
caggcttgat ggacggtaaa ggtggtggca aggatgtgtc tgcacaggcc acaggcaaga 2940
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gggatgtaaa gaactgagtg gggaaggagg aggctccac tggatccatc cgccagcca 3060
agagctcttc atctgctaca agaacatttg aatcttggga cctttaaaga gccctccta 3120
accagcagtg aactggaaca cacttgggag cagtcctatg tctcagtgcc ccttaaattt 3180
ctgccttgag ccctccacgt cagtgccatc ggtctagaac cactaacccc gcattgctgt 3240
tgatcgtaac gctcgcatct atagataacg gctctccaga cctgagcttt ccgctgcage 3300
aagtaggaat cgtttttgcg gcagagaata aaaggaccac gtgc 3344

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&lt;210&gt; 171

&lt;211&gt; 1004

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 171

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Tyr Ser Cys Ala Ser Ala Gly Ile Gly Ala Ala Gly Pro Trp Arg Gly
1          5          10          15
Thr Leu Arg Glu Glu Leu Gly Thr Ala Thr Leu Gly Glu Phe Phe Gly
20          25          30
Val Thr Phe Lys Met Asp Ser Thr Leu Thr Ala Ser Glu Ile Arg Gln
35          40          45
Arg Phe Ile Asp Phe Phe Lys Arg Asn Glu His Thr Tyr Val His Ser
50          55          60
Ser Ala Thr Ile Pro Leu Asp Asp Pro Thr Leu Leu Phe Ala Asn Ala
65          70          75          80
Gly Met Asn Gln Phe Lys Pro Ile Phe Leu Asn Thr Ile Asp Pro Ser
85          90          95
His Pro Met Ala Lys Leu Ser Arg Ala Ala Asn Thr Gln Lys Cys Ile
100          105          110
Arg Ala Gly Lys Lys Gln Asn Asp Leu Asp Asp Val Gly Lys Asp Val
115          120          125
Tyr His His Thr Phe Phe Glu Met Leu Gly Ser Trp Ser Phe Gly Asp
130          135          140
Tyr Phe Lys Glu Leu Ala Cys Lys Met Ala Leu Glu Leu Leu Thr Gln
145          150          155          160
Glu Phe Gly Ile Pro Ile Glu Arg Leu Tyr Val Thr Tyr Phe Gly Gly
165          170          175
Asp Glu Ala Ala Gly Leu Glu Ala Asp Leu Glu Cys Lys Gln Ile Trp
180          185          190
Gln Asn Leu Gly Leu Asp Asp Thr Lys Ile Leu Pro Gly Asn Met Lys
195          200          205
Asp Asn Phe Trp Glu Met Gly Asp Thr Gly Pro Cys Gly Pro Cys Ser
210          215          220
Glu Ile His Tyr Asp Arg Ile Gly Gly Arg Asp Ala Ala His Leu Val
225          230          235          240
Asn Gln Asp Asp Pro Asn Val Leu Glu Ile Trp Asn Leu Val Phe Ile
245          250          255
Gln Tyr Asn Arg Glu Ala Asp Gly Ile Leu Lys Pro Leu Pro Lys Lys
260          265          270

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Ser Ile Asp Thr Gly Met Gly Leu Glu Arg Leu Val Ser Val Leu Gln  
 275 280 285  
 Asn Lys Met Ser Asn Tyr Asp Thr Asp Leu Phe Val Pro Tyr Phe Glu  
 290 295 300  
 Ala Ile Gln Lys Gly Thr Gly Ala Arg Pro Tyr Thr Gly Lys Val Gly  
 305 310 315 320  
 Ala Glu Asp Ala Asp Gly Ile Asp Met Ala Tyr Arg Val Leu Ala Asp  
 325 330 335  
 His Ala Arg Thr Ile Thr Val Ala Leu Ala Asp Gly Gly Arg Pro Asp  
 340 345 350  
 Asn Thr Gly Arg Gly Tyr Val Leu Arg Arg Ile Leu Arg Arg Ala Val  
 355 360 365  
 Arg Tyr Ala His Glu Lys Leu Asn Ala Ser Arg Gly Phe Phe Ala Thr  
 370 375 380  
 Leu Val Asp Val Val Val Gln Ser Leu Gly Asp Ala Phe Pro Glu Leu  
 385 390 395 400  
 Lys Lys Asp Pro Asp Met Val Lys Asp Ile Ile Asn Glu Glu Glu Val  
 405 410 415  
 Gln Phe Leu Lys Thr Leu Ser Arg Gly Arg Arg Ile Leu Asp Arg Lys  
 420 425 430  
 Ile Gln Ser Leu Gly Asp Ser Lys Thr Ile Pro Gly Asp Thr Ala Trp  
 435 440 445  
 Leu Leu Tyr Asp Thr Tyr Gly Phe Pro Val Asp Leu Thr Gly Leu Ile  
 450 455 460  
 Ala Glu Glu Lys Gly Leu Val Val Asp Met Asp Gly Phe Glu Glu Glu  
 465 470 475 480  
 Arg Lys Leu Ala Gln Leu Lys Ser Gln Gly Lys Gly Ala Gly Gly Glu  
 485 490 495  
 Asp Leu Ile Met Leu Asp Ile Tyr Ala Ile Glu Glu Leu Arg Ala Arg  
 500 505 510  
 Gly Leu Glu Val Thr Asp Asp Ser Pro Lys Tyr Asn Tyr His Leu Asp  
 515 520 525  
 Ser Ser Gly Ser Tyr Val Phe Glu Asn Thr Val Ala Thr Val Met Ala  
 530 535 540  
 Leu Arg Arg Glu Lys Met Phe Val Glu Glu Val Ser Thr Gly Gln Glu  
 545 550 555 560  
 Cys Gly Val Val Leu Asp Lys Thr Cys Phe Tyr Ala Glu Gln Gly Gly  
 565 570 575  
 Gln Ile Tyr Asp Glu Gly Tyr Leu Val Lys Val Asp Asp Ser Ser Glu  
 580 585 590  
 Asp Lys Thr Glu Phe Thr Val Lys Asn Ala Gln Val Arg Gly Gly Tyr  
 595 600 605  
 Val Leu His Ile Gly Thr Ile Tyr Gly Asp Leu Lys Val Gly Asp Gln  
 610 615 620  
 Val Trp Leu Phe Ile Asp Glu Pro Arg Arg Arg Pro Ile Met Ser Asn  
 625 630 635 640  
 His Thr Ala Thr His Ile Leu Asn Phe Ala Leu Arg Ser Val Leu Gly  
 645 650 655  
 Glu Ala Asp Gln Lys Gly Ser Leu Val Ala Pro Asp Arg Leu Arg Phe  
 660 665 670  
 Asp Phe Thr Ala Lys Gly Ala Met Ser Thr Gln Gln Ile Lys Lys Ala  
 675 680 685  
 Glu Glu Ile Ala Asn Glu Met Ile Glu Ala Ala Lys Ala Val Tyr Thr  
 690 695 700  
 Gln Asp Cys Pro Leu Ala Ala Lys Ala Ile Gln Gly Leu Arg Ala

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705          710          715          720
Val Phe Asp Glu Thr Tyr Pro Asp Pro Val Arg Val Val Ser Ile Gly
          725          730          735
Val Pro Val Ser Glu Leu Leu Asp Asp Pro Ser Gly Pro Ala Gly Ser
          740          745          750
Leu Thr Ser Val Glu Phe Cys Gly Gly Thr His Leu Arg Asn Ser Ser
          755          760          765
His Ala Gly Ala Phe Val Ile Val Thr Glu Glu Ala Ile Ala Lys Gly
          770          775          780
Ile Arg Arg Ile Val Ala Val Thr Gly Ala Glu Ala Gln Lys Ala Leu
          785          790          795          800
Arg Lys Ala Glu Ser Leu Lys Lys Cys Leu Ser Val Met Glu Ala Lys
          805          810          815
Val Lys Ala Gln Thr Ala Pro Asn Lys Asp Val Gln Arg Glu Ile Ala
          820          825          830
Asp Leu Gly Glu Ala Leu Ala Thr Ala Val Ile Pro Gln Trp Gln Lys
          835          840          845
Asp Glu Leu Arg Glu Thr Leu Lys Ser Leu Lys Lys Val Met Asp Asp
          850          855          860
Leu Asp Arg Ala Ser Lys Ala Asp Val Gln Lys Arg Val Leu Glu Lys
          865          870          875          880
Thr Lys Gln Phe Ile Asp Ser Asn Pro Asn Gln Pro Leu Val Ile Leu
          885          890          895
Glu Met Glu Ser Gly Ala Ser Ala Lys Ala Leu Asn Glu Ala Leu Lys
          900          905          910
Leu Phe Lys Met His Ser Pro Gln Thr Ser Ala Met Leu Phe Thr Val
          915          920          925
Asp Asn Glu Ala Gly Lys Ile Thr Cys Leu Cys Gln Val Pro Gln Asn
          930          935          940
Ala Ala Asn Arg Gly Leu Lys Ala Ser Glu Trp Val Gln Gln Val Ser
          945          950          955          960
Gly Leu Met Asp Gly Lys Gly Gly Lys Asp Val Ser Ala Gln Ala
          965          970          975
Thr Gly Lys Asn Val Gly Cys Leu Gln Glu Ala Leu Gln Leu Ala Thr
          980          985          990
Ser Phe Ala Gln Leu Arg Leu Gly Asp Val Lys Asn
          995          1000

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<210> 172
<211> 659
<212> DNA
<213> Homo Sapiens

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<400> 172
gcctgagcaa cgtctccgag caggcgctgg gctagaggcg ggtctcaacc agctactcat      60
tggaggcggg cttgagagcg gcggccaggg aggtgcggag cagcctcggc ggccggcgcc      120
gaaccaaccg agtcggatcc tgacctaaa acctagtatt ttccacttgt tcatcaatat      180
ggaaaactca gattccaatg acaaaggaag tggatgatcag tctgcagcac agcgcagaag      240
tcagatggac cgattggatc gagaagaagc tttctatcaa tttgtaaata acctgagtga      300
agaagattat aggcttatga gagataacaa tttgctaggc accccaggtg aaagtactga      360
ggaagagttg ctgagacgac tacagcaaat taaagaaggc ccaccaccgc aaaactcaga      420
tgaaaataga ggaggagact cttcagatga tgtgtctaata ggtgactcta taatagactg      480
gcttaactct gtcagacaaa ctggaaatac aacaagaagt gggcaaagag gaaaccaatc      540
ttggagagca gtgagtcgga ctaatccaaa cagtgggtga tttcagattc agtttagaga      600
taaattgttaa cccgtaataa tgggagccaa aattcagaga atgaaaatga gccatctgc      659

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<210> 173  
 <211> 192  
 <212> PRT  
 <213> Homo Sapiens

<400> 173  
 Pro Glu Gln Arg Leu Arg Ala Gly Ala Gly Leu Glu Ala Gly Leu Asn  
 1 5 10 15  
 Gln Leu Leu Ile Gly Gly Gly Leu Glu Ser Gly Gly Gln Gly Gly Ala  
 20 25 30  
 Glu Gln Pro Arg Arg Arg Arg Pro Asn Gln Pro Ser Arg Ile Leu Thr  
 35 40 45  
 Leu Lys Pro Ser Ile Phe His Leu Phe Ile Asn Met Glu Asn Ser Asp  
 50 55 60  
 Ser Asn Asp Lys Gly Ser Gly Asp Gln Ser Ala Ala Gln Arg Arg Ser  
 65 70 75 80  
 Gln Met Asp Arg Leu Asp Arg Glu Glu Ala Phe Tyr Gln Phe Val Asn  
 85 90 95  
 Asn Leu Ser Glu Glu Asp Tyr Arg Leu Met Arg Asp Asn Asn Leu Leu  
 100 105 110  
 Gly Thr Pro Gly Glu Ser Thr Glu Glu Glu Leu Leu Arg Arg Leu Gln  
 115 120 125  
 Gln Ile Lys Glu Gly Pro Pro Gln Asn Ser Asp Glu Asn Arg Gly  
 130 135 140  
 Gly Asp Ser Ser Asp Asp Val Ser Asn Gly Asp Ser Ile Ile Asp Trp  
 145 150 155 160  
 Leu Asn Ser Val Arg Gln Thr Gly Asn Thr Thr Arg Ser Gly Gln Arg  
 165 170 175  
 Gly Asn Gln Ser Trp Arg Ala Val Ser Arg Thr Asn Pro Asn Ser Gly  
 180 185 190

<210> 174  
 <211> 610  
 <212> DNA  
 <213> Homo Sapiens

<400> 174  
 gtactggcat cagtcaatgt tctggagtga tttgggcccc gatgttggt atgaagctat 60  
 tgggtcttggt gacagtagtt tgcccacagt tgggtgtttt gcaaaagcaa ctgcacaaga 120  
 caaccccaaa tctgccacag agcagtcagg aactgggtatc cgatcagaga gtgagacaga 180  
 gtccgaggcc tcagaaatta ctattctctc cagcaccccg gcagttccac aggtctccgt 240  
 ccaggggggag gactacggca aaggtgtcat cttctacctc agggacaaag tggtcgtggg 300  
 gattgtgcta tggaacatct ttaaccgaat gccaatagca aggaagatca ttaaggacgg 360  
 tgagcagcat gaagatctca atgaagtagc caaactattc aacattcatg aagactgaag 420  
 cccacagtgt gaattggcaa acccactgca gccoctgaga ggaggtcgaa tgggtaaagg 480  
 agcatttttt tattcagcag actttctctg tgtatgagtg tgaatgatca agtcctttgt 540  
 gaatattttc aactatgtag gtaaattctt aatgttcnca tagtgaaata aattctgatt 600  
 cttctaaaaa 610

<210> 175  
 <211> 138  
 <212> PRT  
 <213> Homo Sapiens

<400> 175

Tyr Trp His Gln Ser Met Phe Trp Ser Asp Leu Gly Pro Asp Val Gly  
 1 5 10 15  
 Tyr Glu Ala Ile Gly Leu Val Asp Ser Ser Leu Pro Thr Val Gly Val  
 20 25 30  
 Phe Ala Lys Ala Thr Ala Gln Asp Asn Pro Lys Ser Ala Thr Glu Gln  
 35 40 45  
 Ser Gly Thr Gly Ile Arg Ser Glu Ser Glu Thr Glu Ser Glu Ala Ser  
 50 55 60  
 Glu Ile Thr Ile Pro Pro Ser Thr Pro Ala Val Pro Gln Ala Pro Val  
 65 70 75 80  
 Gln Gly Glu Asp Tyr Gly Lys Gly Val Ile Phe Tyr Leu Arg Asp Lys  
 85 90 95  
 Val Val Val Gly Ile Val Leu Trp Asn Ile Phe Asn Arg Met Pro Ile  
 100 105 110  
 Ala Arg Lys Ile Ile Lys Asp Gly Glu Gln His Glu Asp Leu Asn Glu  
 115 120 125  
 Val Ala Lys Leu Phe Asn Ile His Glu Asp  
 130 135

<210> 176  
 <211> 805  
 <212> DNA  
 <213> Homo Sapiens

<400> 176  
 gggacagcca agtctgtgac ttgcacgtac tccccctgccc tcaacaagat gttttgccaa 60  
 ctggccaaga cctgccctgt gcagctgtgg gttgattcca ccccccgcc cggcaccgac 120  
 gtccgcgcca tggccatcta caagcagtca cagcacatga cggaggttgt gaggcgctgc 180  
 cccaccatg agcgctgctc agatagcgat ggtctggccc ctccctcagca tcttatccga 240  
 gtggaaggaa atttgcgtgt ggagtatttg gatgacagaa acacttttcg acatagtgtg 300  
 gtgggtgccct atgagccgccc tgaggttggc tctgactgta ccaccatcca ctacaactac 360  
 atgtgtaaca gttcctgcat gggcggcatg aaccggaggc ccaccctcac catcatcaca 420  
 ctggaagact ccagtggtaa tctactggga cggaaacagct ttgaggtgag tgtttgtgcc 480  
 tgtcctggga gagaccggcg cacagaggaa gagaatctcc gcaagaaagg ggagcctcac 540  
 cacgaagctg cccccaggga gcaactaagcg agcactgccc aacaacacca agctcctctc 600  
 ccagccaaa gaagaaancca ctggatngag aatatttcac cccttcanat tcgttgggag 660  
 tgagcgcttc cganaatgtt ccgaagagct gnaagaaggc cttgggaact caaaggatgc 720  
 ccaaggcttg ggaaaggagc caangggggg gaancaangg gctcaactnc aagccaacct 780  
 gaaagtcca aaaaangggg ccagt 805

<210> 177  
 <211> 626  
 <212> DNA  
 <213> Homo Sapiens

<400> 177  
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 caggccatgg gaccttcctc cggcggggtg cacgctggat ttccgggtct gccccaccag 120  
 caggtttgca ggcaggccgt catgagtgc ggtggaaggc tccgagggag tgggcagggg 180  
 ctggggcggg gccacacact tgtggagcta gaaatantgg ggcaggtcct tctctatcac 240  
 caggggctcc tccatgggtc cgtagcgctt caccacgcag ccgttcttgt cgtataggaa 300  
 ctgtgganan acggtgtcca aactgtgggg ccaccctgc aaggggctga ggctgccctt 360  
 cctgtccgct gcccatctgg gccacggctg tggccagggg aaactggtcc cctaccccc 420  
 acagccccct tacctttggt gaagtccac ttgatggcac tggaaaaanaa gcacatggac 480  
 gtgagcgctc ccaggcagcc cccacagtc cccaaagctt gtcctgtctc caaggaggcc 540

anaaagggttg tnagettccc ceggtncctc cacangccac agtgccccc aanncccccc	600
aanagccatc tttaccccaa ggaggg	626

<210> 178  
 <211> 793  
 <212> DNA  
 <213> Homo Sapiens

<400> 178	
gcgcgaggct gctgctgctg cccccggccc gcgcgggctgg aaacggagag gccgagccaa	60
gcggcgggccc ctcttatgct gggaggatgc tggagagtag cggctgcaaa gcgctgaagg	120
agggcgctgct ggagaagcgc agcgacgggt tgttgacgct ctggaagaaa aagtgttgca	180
tcttcaccga ggaagggtctg ctgcttatcc cgcacaagca gctgcaaac cagcagcagc	240
agcaacagca gcagcagcag cagcaacaac agcccgggca gggcgccggc gagccgtccc	300
aaccagtggt ccccgctgtc gccagcctcg agccgcgggt caagctcaag gaactgcact	360
tctccaacat gaagaccgtg gactgtgtgg agcgcaagg caagtacatg tacttctactg	420
tggatgaggg agagggaag gagatcgact ttcgggtgcc gcaagaccag ggctggaacg	480
ccgagatcac gctgcagatg gtgcagtaca agaatcgta gccatcctg gcggtcaaat	540
ccacgcggca gaagcagcag cacctggctc agcancagcc cccctcgag ccgcagccgc	600
agccgcagct ccaagcccca accccagcct tcagcctcaa gccngcaacc ccaagcccca	660
attcacaac cccaagccct caagcccca cccaaagccc tcangcccca ngcaagntcc	720
aaccggttat nccggccatcc aacattcaan atccaanact ctcaangcct taactnccn	780
acccaanaac nct	793

<210> 179  
 <211> 786  
 <212> DNA  
 <213> Homo Sapiens

<400> 179	
aatactcagag ttttaatttc aaccagctgg cacaacaatg aaagtgtcag actttctgaa	60
agtactcgag aaataatgaa taaattctta atgttttccc ctccaccgcc cttttttatt	120
ctccaagatt aggaattact acggattagg tttttgaaaa taaagtttcc tttttgaaa	180
atggtctaca ttcagaaatg tcttagaaca agcattttaa aaaaactaat aaataatcat	240
aaatcaaat acattaaaat aaaattacag tacatcatcg ctcttagaaa attcaccata	300
caagacgac ctttcaaagg ttcataaata aaagtcttct tgactcgaaa tcgtttctctg	360
catcgatg aaaagtatgc agaaaactaa gaagaatcgc aagttttcag tagggatg	420
tccaaactac ttgatctggg gcggggcgga gagactgtt tgcttttgat ccaagtgaag	480
acaatagaaa tgtgctcgtc ccacttctc aagtcctcaa aacctgtct tgccggggag	540
atgccccttt cangcagagt tgggaggtgc tgcgganaaa ccggtgccg tgccgctgcc	600
aatgcgctg tgggtgtggg tgcngtattt ggtgccgat gcnggtgcc ggtnaagggt	660
tggggtgcca antnaaggat gaaaatgtgg atnttngnat nttgattccg gatacgggt	720
gggaacctng cngggggccn naaggcttg ggttggggct naanggttg ggttttttaa	780
ttgggg	786

<210> 180  
 <211> 791  
 <212> DNA  
 <213> Homo Sapiens

<400> 180	
aggacctcag agaccaggc tctgtgattg tggccttcaa ggaaggggaa cagaaggaga	60
aggagggtat cctgcagctg cgtcgcacca actcagccaa gccagtgcca ctggcaccat	120
ccctcatggc ctcttctccg acttctatct gtgtgtgtgg gcaggtgcca gctggggtgg	180
gagttctgca gtgtgacctg tgtcaggact ggttccatgg gcagtgtgtg tcagtgcacc	240



atctctctcac	ctctccaaag	cccagttctca	cttcatctcc	actgctagcc	tggtgggaat	300
gggacacaaa	attcctgtgt	ccactgtgta	tgcgctcacg	acggccacgc	ctagagacaa	360
tcttagcctt	gctggttgcc	ctgcagaggc	tgcccgtagc	gctgcctgag	ggtgaggccc	420
ttcagtgtct	cacagagagg	gccattggct	ggcaagaccg	tgccagaaa	gctctggcct	480
ctgaagatgt	gactgtctct	ttgcgacagc	tggtgagct	tcgccaacag	ctacaggcca	540
aacccanacc	agaggaggcc	tcagtctaca	cttcagccac	tgctgtgac	cctatcagag	600
aaggcagtg	caacaatatt	tcnaangtcc	aagggtgct	ggagaatgga	gacantgttg	660
accagtcctg	agaacatggc	tccaggaaa	ggctctgacc	tggagctacn	gtcctcactg	720
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cctggaggga	g					791

<210> 181

<211> 747

<212> DNA

<213> Homo Sapiens

<400> 181

agtatccaaa	catactcatt	gttttatttt	taacaaaaga	aatgaaatta	aagatagacc	60
acaggtagag	tcatgaaatt	cttggttttc	cctattcttt	ttggtaatta	caacgtacat	120
tgctctcttt	tataataaga	cccaagggga	gaaaagaaaa	ggatgtacaa	tgaaggtaga	180
agttttgaag	cacaaaaata	ttttatgaca	gggacaaaaa	aacaaaaaac	aaacaaaaat	240
tgaagtacag	aaagagggtg	gtgggggcaa	aaataaagg	acgcacttgg	gcttcctcaa	300
gatttgtttg	tcctattca	gactagaatg	aaactggttt	aggaaatcac	tcctgtatgc	360
tagcaggaat	gttgctggca	agacacttct	gagcatcggg	gtgtggactt	tacgaaccaa	420
ccttttaaca	gtaactctag	gagagaggat	atcaaaaatt	ggcagtga	aattatagat	480
aggcaaaaag	ctccttctga	ggtccaggcc	aggagatagt	angatttaag	aaacaaacaa	540
acaataacaa	ccacaaatgg	acctttggtg	ccactgtcac	aactgttgct	catcagagta	600
ggagaattgt	ancaaaggca	ttaaagaagg	gacaagcaag	ctgaagagcc	tgaatccttg	660
gggttgtaag	ccnatttttg	gnttcctttc	aagaaaagg	ctgttgngcg	gtggaanggg	720
tcanggaaca	ntatttcacg	ggtcngc				747

<210> 182

<211> 909

<212> DNA

<213> Homo Sapiens

<400> 182

aaacagagag	ccaaatcatg	agtgaactcc	cattcacaa	tgcttccaag	ataataaaat	60
acctaggaat	ccaacttaca	aaggatgtga	aggacctctt	caaggagaac	tacaaaccac	120
tgctcaatga	aataaaagag	gatacaaa	aatgggaaga	cattccatgc	tcattgggtag	180
gaagaatcaa	tatcgtgaaa	atggccatac	tgcccaagg	aatgtataga	ttcaatgcca	240
tccccatcaa	gctaccaatg	actttcttca	cagaattgga	aaaaactact	caaaagtcca	300
tatggaacca	aaaaagagcc	cacattgcca	agtcaatcct	aagccaaaag	aacaaagctg	360
gaggcatcac	gctacctgac	ttcaaaactat	actacaaggc	tacagtaacc	aaaacagcgt	420
ggtactggta	ccaaaacaga	gatataaatc	aatgcaacag	aacagagccc	tcagaaataa	480
tgccacatat	ctacaactat	ctgatctttg	acaaacctga	gaaaaacaag	caatggggaa	540
aggattccct	atttaataaa	tggtgctggg	aaaactggct	agccatatgt	agaaagctga	600
aactggatct	cttctttata	ccttatata	aaattaattg	aagatggntt	aaaggactta	660
aacgttagac	ctaaaaccat	aaaaacccta	gaagaaaaac	ctaggcatta	ccattcangg	720
acataggcct	gggcaaggac	ttcctgtcta	aaacaccaan	agcaatggga	ncaaaagcca	780
aaattgcaaa	tggggattct	aattaactaa	agggcttttg	cacagcnaag	aagctccatc	840
agagngaaca	ggaacntcaa	antgggagaa	attttgaacc	taccatcnga	naaggcta	900
nccagaatc						909

<210> 183

<211> 708  
 <212> DNA  
 <213> Homo Sapiens

<400> 183  
 attatcatta tactttaagt tttaggttac atgtgcacaa tgtgcaggtt agttacatat 60  
 gtatacatgt gccatgctgg tgtgctgcac ccattaactc gttatttagc attaggtata 120  
 tctcctaagt ctatccctcc cgctccccc caccacacaa cagtccccag agtgtgatgt 180  
 tccccctcct gtgtccatgt gttctcactg ttcaattccc acctatgagt gagaatatgc 240  
 ggtgtttggt ttttttgtcc ttgccatagt ttactgagaa tgatgatttc caatttcac 300  
 cctgtcccta caaaggacat gaactcatca ttttttatgg ctgcatagta ttccatgggtg 360  
 tatatgtgcc acattttctt aatccagtct atcattgttg gccatttggg ttggttccaa 420  
 gtctttgcta ttgtgaatac tgccgcaata aacatacgtg tgcattgtgtc tttatagcag 480  
 catgatttat antcctttgg gtatatactc agtaatggga tggctgggtc aaatggnatt 540  
 ccaantccan atcccttang aattgccaca cggactccac aanggttgaa ctantttaca 600  
 gtccancaa cagngtnaaa gggtcnaaa tncacaaaat cctctccaag caccngttgt 660  
 tcccgactt tttaanggat tgncaattcc aaccggngt caaaaggg 708

<210> 184  
 <211> 855  
 <212> DNA  
 <213> Homo Sapiens

<400> 184  
 agactcacag tctgctggtg ggcagagaag acagaaacga catgagcaca gcaggaaaag 60  
 taatcaaagt caaagcagct gtgctatggg aggtaaagaa acccttttcc attgaggatg 120  
 tggaggttgc acctcctaag gcttatgaag ttgcattaa gatggtggct gtaggaaatct 180  
 gtgcacaga tgaccacgtg gttagtggca acctggtgac cccccctcct gtgatttttag 240  
 gccatgaggc agccggcatc gtggagagtg ttggagaagg ggtgactaca gtcaaacagg 300  
 gtgataaagt catcccgctc tttactcctc agtgtggaaa atgcagagtt tgtaaaaacc 360  
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 gcaccaggag gttcacctgc agggggaagc ccattcacca cttccttggc accagcacct 480  
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 gttgccaaag tcacccagg ctctacctgt gctgtgtgtg gcctgggaag ggtcggccta 660  
 tctgctgtta tgggctgtta aagcaactgg aggcacccag aatcaattgc ggtggacatc 720  
 aacaaggaca aattttgcaa agggcaaaag agttgggtgc cactgaatgc catcaacctt 780  
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 ttggattttt ccggt 855

<210> 185  
 <211> 865  
 <212> DNA  
 <213> Homo Sapiens

<400> 185  
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 tggcttacgc aaacatgtgt cgatgtctag taacgctgaa agtaccatg gcagacaagc 180  
 ctggtaacac agtgaatttc cggaagctgc tactgaaccg ttgccagaag gagtttgaaa 240  
 aagataaagc agatgatgat gtctttgaga agaagcagaa agaacttgag gctgccagtg 300  
 ctccagagga gaggacaagg cttcatgatg aactggaaga agccaaggac aaagcccggc 360  
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 aagccatcat gcatgactgt gtggtgaagc tgctaaagaa ccattgatga gaatccctgg 480  
 agtgccgtgt tcgcctgctc accaccattg gcaaagactt ggactttgaa aaagcaaaagc 540

cacgtatgga	ccagtacttt	aatcaagatg	gagaaaattg	tnaaagaaag	aaaaacctca	600
tctagggatt	cggttcatgc	ttcaaagatg	ttatanacct	aaggctgttg	caattggggg	660
atctcgaaa	agcagatnaa	gggcctnaan	ctatcgaaca	gattcacaaa	ganggctaaa	720
attgaaanaa	caagaatagc	caaagggaag	gnccaacaac	tcatggacca	anggagaaat	780
agaataccaa	ggtgttccaa	aaanttggcc	aaangnnggt	tggaaanacn	gttcaaaggg	840
ggccangaaa	aantccgggt	actgg				865

<210> 186  
 <211> 736  
 <212> DNA  
 <213> Homo Sapiens

<400> 186						
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agagtacttt	tctcagggtg	gcactttngt	ttttttaa	aattcttgga	gttctgtggg	120
ccacagcatt	tccttctgtt	tcaatgttat	gtatgttttg	attactattg	tgatttttta	180
aattttctga	agcaagctga	gaggcaggca	gaaagatttg	atgccaaaa	aaaaaaaaatc	240
tttcttacct	tggtcacccc	aaactttctc	aaatctggac	taaagtctat	accttaaaac	300
aaacatgagg	tgcatcttga	aggggaggga	aatttatttc	tctgcttttc	tattatacaa	360
gttgtttaca	gaaactgcaa	attaaaaaat	tacactggca	tttgagtc	ttaaaaataaa	420
ttaaaagtgc	tcaacttttt	tttttttttg	ctaaacattt	ttttaagtat	gagtccttgt	480
ttaaaaagaa	aagattaaaa	cagaaaaatat	tttctataaa	taatacatgt	attttggttt	540
tagtgctccc	gccctaaggt	ttgaagttaa	cttttancca	ngtacctttt	tcctccatga	600
tcaccttttt	ttctctttcc	cctctcccaa	ntccgtgcac	acgtgggggt	ttccggcaan	660
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<210> 187  
 <211> 946  
 <212> DNA  
 <213> Homo Sapiens

<400> 187						
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tccggttgga	gcatgacgtg	aacatccagt	ttcctgataa	ggacgatggg	aaccagcccc	180
aggaccaa	taccatcaca	gggtacgaaa	agaacacaga	agctgccagg	gatgctatac	240
tgagaattgt	gggtgaactt	gagcagatgg	tttctgagga	cgtcccgtcg	gaccaccg	300
ttcacgcccc	catcattggg	gcccgcggca	aagccattcg	caaaatcatg	gacgaattca	360
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ggctcccaga	gaatgtggag	gaagccatcg	accacatcct	caatctggag	gaggaatacg	480
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ggtgagcaag	cnggcgggat	gctgggggtg	ctggggcaaa	ctgaccctgt	cttctgtctt	660
tccgcctgca	gctagcctga	cgttgtggac	agtnaangcg	cctgcangtt	atacatgaaa	720
cccccagcac	acgaanaagc	caanggnacc	tttcaaaagg	ctttnttggt	gccgggacca	780
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tttcccanc	tttgggggcc	caaggtggct	cccaaagaac	cctccccntt	ttggggcccc	900
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<210> 188  
 <211> 802  
 <212> DNA  
 <213> Homo Sapiens

&lt;400&gt; 188

aaagtcaagg	ncgtttat	ccngaggnc	tgacacanga	agtggatcc	naaccacggn	60
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ggagtcngt	atcntaacac	gaatgccan	gaccttggt	taatgttaa	cantggagca	180
ngtcctganc	gggcacggcc	angcctggag	gancggccg	acacacanc	angcgcnagg	240
ctccctgcg	gacctcngga	agggggaana	gcgtcaacaa	tttacggng	gtccaaccgc	300
tggtgcaaat	tgagacaaac	cantgtgtg	ttgggttcg	gtcancang	tggananggt	360
tcngttcnt	ttgatcanta	ncntttggg	ccccaaagg	nggtcntgg	anccacctga	420
nccccaaag	tggaatctc	ctcaaaagt	cncatgtcaa	gagccttcn	antgctgctg	480
gcggtccaa	gtgcgtccc	caccacaaag	cctctggaag	gngccttgg	ctcttctgt	540
gccgggggt	tcagtntac	ctgcancgc	tcactgtcca	ccaangtcag	ctaactgcag	600
gcnaagaca	ggaatnacag	ggtcagtcg	cccaacaacc	ccancatccc	ggccgcctt	660
ggctcaaac	ctgcaacct	gctgccttc	cggaanac	aatttccac	ccttgtnccc	720
ctgaaancc	cctggnctg	ggcctcaaa	ggcgttgga	ncctccanag	gncnccccca	780
gggntccca	angggccac	aa				802

&lt;210&gt; 189

&lt;211&gt; 807

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 189

aaaatggcg	cgccagcgt	gtcgcttgt	ttccgcggt	cctgcggcg	tgccagtggt	60
agcggcctt	gagctgtgg	gaggttccag	cagcagctac	agtgcgact	aagactccag	120
tgcatctcta	tcgtaaccg	gcgcggggga	gcgcagatcg	gcgcccagca	atcacagaag	180
ccgacaagg	gttcaagcg	aaacatgacc	gctgagccca	tgagtgaag	caagttgaat	240
acatttggt	agaagcttc	tgacttcct	gcacactcat	cagaagaatc	tgaagaaaca	300
agttctctc	cacgacttg	aatgaatcaa	aacacagata	aaatcagtg	ttctggaagt	360
aactctgata	tgatggaaaa	cagcaaggaa	gagggaacta	gctcttcaga	aaaatccaag	420
ttctcaggat	cgtcacgat	aaagaggaaa	ccttcaattg	taacaaagta	tgtagaatca	480
gatgatgaaa	aacctttgga	tgatgaaact	gtaaatgaag	atgcgtctaa	tgaaaattca	540
gaaaatgata	ttactatgca	nagcttgcca	aaaggtacag	tgattgttca	gccagagcca	600
gtgctgaatg	aagacaaaga	tgattttaaa	ggggcctgaa	tttagaagca	gaagttaaaa	660
tgaaaactga	naatctcaaa	aaacgcccga	gaanatgggc	ttcatgggga	ttgtganc	720
tgactggcn	tggtggacaa	caaggtcaat	caatttcaaa	aaggttccat	ttatagacaa	780
cccttcaatg	caaggtcnta	ttgttta				807

&lt;210&gt; 190

&lt;211&gt; 608

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 190

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agattggctt	taatttctc	taaaagcatc	ttcttggcaa	ttctattctc	aggatcattg	120
tcgtcatcat	catcatccac	tgtgacagg	actgatttag	ataaggcttc	atctcctgaa	180
gattggcaaa	atccagtatg	tgaagacagc	actaaatctt	cagtcacagg	cttaattttc	240
tgttcatcgc	tgcttccctc	acctatagaa	ttctgatcat	catcttctat	atcagaagaa	300
gatgaggatg	taatgtcagc	ttgcttctt	ttagtgcctt	ttcttaggga	gtttctctt	360
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ttctcangaa	ctttcctcag	catcagatga	tgatgangcc	actttgtatt	tccttagtat	480
ttctctttga	acttaaattt	cttctttccc	tcaattcgag	tcctttcagt	caccttatca	540
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tccttgaa						608

<210> 191  
 <211> 786  
 <212> DNA  
 <213> Homo Sapiens

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 ggagggacgt ggacaacggc ctctcgctcg tcatcttcag tgactgggtac aacactttctg 120  
 ttatgagaaa agtgaagttt tatgatgaaa acacaaggca gtggtggatg ccggataccg 180  
 gaggagctaa catcccagct ctgaatgagc tgctgtctgt gtggaacatg gggttcagcg 240  
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 gcagcatcgc gaagtttcca gaagatggcg tcgtgataac acagactttc aaggaccaag 360  
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 atcagattcc agctgagggt ggaggccgga ttgtactgta tggggactcc aattgcttgg 480  
 atgacagtca ccgacagaag gactgctttt ggcttctgga tgcctctctc cagtacacat 540  
 cgtatggggg gacaccgcct agcctcagtc actctgggaa ccgccagcgc cctcccantt 600  
 ggagcaagct cagtcaactc agagaggatg gaaggaaacc atctcatcgg tactccaagg 660  
 ttctggangg ccatttggga aaacccaaaac ctcgggctcn acaaccctgt ccangcctgt 720  
 nctgggcca gccaanagcc tttaaaccan aacgngccc aattaacctt ttggaaaaca 780  
 tcagaa 786

<210> 192  
 <211> 819  
 <212> DNA  
 <213> Homo Sapiens

<400> 192  
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 aaattacaaa acatggtggc aggtgatact tacaaaaata aagcgaaggt ctatgtttta 120  
 cagattttgt catgtttcct tcaaatctca gtctgtactg tcattaaaaa gatcatggaa 180  
 tctatgttgt tctcatgat ggaatagtaa aaaaactgca ttccactgac aaaaaaata 240  
 gctttgcttc caaatagcac aagtctttta agtgactttt cccaacaata aatatagaaa 300  
 atagccttta acaagcgtct tttagcttgg tcagggttgt atcatttgtt tggaaagtac 360  
 atccttcccc tgcagtcaga agacccaga cagcctttcc agttctcccg agtctttggt 420  
 gcgcacagct gccggcggga agtctcactg gccgcagagc cactaagtc ctcctgacgg 480  
 gatccacagg aatcttctcg atgtaccagg agcctctgcc catcacagga gggcaggccc 540  
 atgtagaaca agactctaac aaacctgcag ctggaaactg gattcctttt aaaccaaccc 600  
 gccaacacag ctcgntcac ccaccanccg cgtccgtnaa aggggctctc tgggcctcac 660  
 gggtcagcca ggttgccggg cacaccgaaa ggggtccttg ggcgggtgaa cctgctgcat 720  
 gaantcggcg gggngcttca accctgggct tctccggct ttcggcctgg nctgggcct 780  
 tgttgaantt gntccacaaa agaaaggcca ggagcaaca 819

<210> 193  
 <211> 744  
 <212> DNA  
 <213> Homo Sapiens

<400> 193  
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 tgtctgctgt acctactggc agtcagattg caaatatttg tcagcaagca aacataccta 120  
 ctgcagtgc gcagccctct acccaggttc caccttcagt tattcagcag ggtgctctc 180  
 catcttcgca agtgggtcca cctgctcaaa ctgggattat tcatcagga gttcaacta 240  
 gtgctccaag ccttctctca caattgggta ttgcatccca aagttccttg ttaactgtgc 300  
 ctccccagcc acaaggagta gaatcagtag ctcaaggaaat tgtttcacag cagttgctg 360  
 cagttagttc tttgcctct gctagtagta tttctgttac aagtcagggt agttcaactg 420

gtccttcttg	aatgccttct	gccccacaa	acttggttcc	accacaaaat	atagcacaaa	480
ccctctgtac	ccaaaatggt	aatttggttc	aaagtgttaa	gtcaacctcc	cttgatagca	540
actaatacaa	atttgccttt	ggcacaacag	ataccactaa	gttctaccca	agttctccgc	600
acaatcatta	gtcaggcaa	ttggaagcca	aattgaagat	gccaggcggt	gcagcggagc	660
cctccttaag	ttggcttacc	tcaagactaa	tcagttggtg	acaattgggg	ggaatgttca	720
gcaagtttca	agattgggaa	gtta				744

<210> 194  
 <211> 567  
 <212> DNA  
 <213> Homo Sapiens

<400> 194						
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ttacaattgt	gtagagaaca	tgcacagaaa	catatgcata	taactactat	acaggtgata	120
tgcagaaacc	cctactggga	aatccatttc	attagttaga	actgagcatt	tttcaaagta	180
ttcaaccagc	tcaattgaaa	gacttcagtg	aacaaggatt	tacttcagcg	tattcagcag	240
ctagatttca	ggattacaca	aagtgcagta	ctgtgccaaa	ttcttaaaat	ttcttttaggt	300
gtgggttttg	tcattgtagca	gtttttatgt	agatcnatat	ntaaaagtcc	acacctctc	360
agacangcca	atgaaacnac	taaatttcaa	tctgtacaan	ctaaatagta	attacagtcc	420
tctangtgnn	caangatact	tacaccacat	anacaaatnt	acnntacgca	naacaacctt	480
catggggaag	gatagcccta	ggccccagc	tancctgtca	ccatttttgt	cactctcata	540
gttttggtgt	ccaatccatt	ggttttg				567

<210> 195  
 <211> 771  
 <212> DNA  
 <213> Homo Sapiens

<400> 195						
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tagttgacaa	tgcatacagc	tgtgatccaa	ggataaaaaa	gttcaaggaa	gaagaaaaag	120
ccaagaaaga	ancanaaaag	aaagcaaaaag	cagaagctaa	acggaaggag	caagaagcta	180
aagaaaaaca	aagacaagct	gaattagaag	ctgctcggtt	agctaaggag	aaagaagagg	240
aggaaagtcag	acagcaagca	ttgctggcaa	agaaggaaaa	agatatccag	aaaaaagcca	300
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tggcaagctt	acagtgtctg	aatgaaacac	tcacatcatg	cacaaaagaa	gtnggaaagg	480
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aaatggaagt	aaaaattggg	cacaaagatg	ntctacaatt	actaatttna	aagctgtgaa	660
tcctgttncc	tgtctggaaca	aantcaagat	gggaagttat	tgccaantac	atgaacatac	720
attcctcccn	cngggngtcc	aaaaagaaac	tgccaaaagn	atgtttattg	g	771

<210> 196  
 <211> 561  
 <212> DNA  
 <213> Homo Sapiens

<400> 196						
acagtatttt	cagttttatt	ataaaaatgc	acacacaaca	aagattgtca	tttcttggtc	60
ctacttgcac	tcagcacttg	ttcttgagca	gctttctttg	cttttaccat	ctcgacaagt	120
tccttgtatc	gtttcatgca	gtccttcttt	gtcctgccag	gcaccgcttc	tgtatttttt	180
tcccatcttt	caggtgtatt	tactgggtat	gttttcaaag	cttgttccaa	aagcttctgt	240
tcttctgttg	tccaaggggt	gaagtctgta	tatggacctt	caaatcgttc	tgaaggcggt	300

gcgttgctctg	cttgagggtac	cactccatgt	tcttttttga	acttatcaaa	tgcccttttta	360
tttangtcag	ctttttgatg	aggggtcaagt	ttttggagac	tctttgcttt	gccaataaca	420
tctttggnan	gttcttttga	ctccaagagg	aagaangtnt	ngttcatgtn	antangaan	480
aacgtcccat	ctggaanttt	tgttcnacca	gggaacanac	tcacaagctt	taactaagta	540
antgtngnat	naccgncngn	c				561

<210> 197

<211> 691

<212> DNA

<213> Homo Sapiens

<400> 197

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cgcagcctca	gccccagcag	cctccacccc	cacccctcc	ccagcagcag	cccccgctgt	120
cacagtgtan	tatgaataac	agtttcaccc	cagctcctat	gatcatggag	ataccagaat	180
ctggaagcac	tggaacata	agtatctatg	agaggattcc	aggggatttt	ggtgccggca	240
gctactctca	accatcagcc	accttcagcc	tagccaagct	gcagcagctg	accaacacca	300
ttatggaccc	tcatgccatg	ccttatagcc	attctcctgc	tgtgacttcc	tatgcaacca	360
gtgtttctct	gtccaataca	ggactggctc	agctggctcc	atctcatccc	ttagtgggga	420
ctcctcaage	acangccacc	atgacgccac	ccccaaactt	ggcatccact	accatgaacc	480
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ggcactgccc	tctgcnctg	ctcaccanna	ngcagctggt	atgggcccgn	tccccaatcg	660
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<210> 198

<211> 646

<212> DNA

<213> Homo Sapiens

<400> 198

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cctactgtgc	tggtggctcg	tctgtccctc	ttctcattag	ccactcacag	gagaggtgct	180
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gcgccatctc	ttccaacata	aaatanactg	tttcaatggt	ttgtcagtta	tttttcaaat	360
cactaanatg	tacagtcctc	caccaacaat	ttaagaaaga	acctaaagag	caaactactg	420
gggactgcta	tttgagtttt	atcagtcaaa	ggctcaagca	tcaanaccct	cagttancat	480
ttcaaagtac	atactangaa	acancgaggc	tggttgccgt	tgtgtgcgtt	anggctgatt	540
caccaggtgg	taaanaca	aagnggttaa	gnctccnctt	tttgattgt	taattgncca	600
tcctcnattc	ctccaaaagg	gctgggattt	ggatttggca	aagtca		646

<210> 199

<211> 811

<212> DNA

<213> Homo Sapiens

<400> 199

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gatgaaatta	tttctaagac	aaagcaagta	attcaggggc	tggaagcttt	gaagaatgag	180
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ggcctgagtg	aggcacaggt	tatgatggct	ttgtcaaatc	acctgaatgc	tgtggagtcc	360

gagaagcaga	aactgcgtgc	gcaggttcgt	cgtctgtgcc	aggagaatca	gtggctacgg	420
gatgaactgg	ccaacacgca	gcagaaactg	cagaagagtg	agcagtctgt	ggctcaactg	480
gaggaggaga	agaagcatct	ggagtttatg	aatcagctaa	aaaaatatga	tgacgacatt	540
tccccatccg	aggacaaaga	cactgattct	accaaagagc	ctctggatga	ccttttcccc	600
aatgatgaag	acgacccagg	gcaaggaatc	cagcagcagc	acagcagtg	agccgagggt	660
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<210> 200

<211> 763

<212> DNA

<213> Homo Sapiens

<400> 200

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tgccccatcc	ttttgctttc	ctttgcattc	ttctctttcc	tcaacaatgc	atccaaatgg	660
gtttaatttc	aacatctaca	gaaccaaact	ccctttcatg	tgacacaagt	agaatcnctt	720
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<210> 201

<211> 717

<212> DNA

<213> Homo Sapiens

<400> 201

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tggagtccga	gaagcagaaa	ctgcgtgcgc	aggttcgtcg	tctgtgccag	gagaatcagt	360
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ccttttcccc	aatgatgaag	acgaccccag	ggcaaggga	tccancagca	gcacagcaan	600
ttgcagccgc	ggctgcccga	gcaaggcggc	tacgagattc	ccgcgcgggc	tgccggacgc	660
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<210> 202

<211> 647

<212> DNA

<213> Homo Sapiens

<400> 202

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catgccattg	caacaacacc	ttgtgtgaca	cttaactacc	tgttacaaa	gtgaacagct	300
aatcgctctt	aatttttaaa	ctcgtgtatt	acacagtaaa	tggaattttan	taatacagtt	360
tatattacta	agtacatatc	tggcaaagct	acatgtatatac	agaaatcagg	aaccccccca	420
aaaaggacag	cagcaccgaa	aggaatggcc	agttcacaga	nangtgcagc	tctgacaaga	480
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gcgccaaccc	gtcatgccag	gggacagtgt	ganagtcacg	ggncgggcta	ngccaatggg	600
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<210> 203  
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 <212> DNA  
 <213> Homo Sapiens

<400> 203						
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attaatatga	agaggagatn	aaactgttgg	anggagaagc	tgaanggagg	ctganacccc	720
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acctta						786

<210> 204  
 <211> 738  
 <212> DNA  
 <213> Homo Sapiens

<400> 204						
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ttgccacaga	cctctcgga	aactctgtc	gggtctcagc	ctccttcagc	ttctctcca	240
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tctcgccac	ctcagccctc	tcctccgagc	gctccagctc	tccttcagg	atcaccagct	420
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aaggaaggca	anatctgcct	caacaacaat	tggccttctt	cncggccngc	tccaattttc	720
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<210> 205  
 <211> 818  
 <212> DNA

## &lt;213&gt; Homo Sapiens

## &lt;400&gt; 205

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gttctctccc	ttggcactgg	ccaaggtctc	ttctaggtca	tcgatggttt	tctccaactt	180
tgccacagac	ctctcgga	actctgctcg	ggctctcagcc	tccttcagct	tctctccaa	240
cagtttgatc	tcctcttcat	atztatcttc	tttggtggaa	tactctctct	ctgaggccat	300
cagggacttg	agggcctgg	ccatgggttc	aagttctctc	tccagctgtc	tggtctggct	360
ctcgccacc	tcagccctct	cctccgagcg	ctccagctct	ccttccagga	tcaccanctt	420
cctggccacc	tcttcatatt	tgcggtctga	atcctcagcg	atgtgcttgg	cctctctcag	480
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## &lt;210&gt; 206

## &lt;211&gt; 927

## &lt;212&gt; DNA

## &lt;213&gt; Homo Sapiens

## &lt;400&gt; 206

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## &lt;210&gt; 207

## &lt;211&gt; 910

## &lt;212&gt; DNA

## &lt;213&gt; Homo Sapiens

## &lt;400&gt; 207

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gagataaaac	caactttccc	aaaaagggag	atgttgttca	ctgctggtat	acaggaacac	420
tacaagatgg	gactgttttt	gatactaata	ttcaaacaag	tgcaaagaag	aagaaaaatg	480

ccaagccttt	aagttttaag	gtcggagtag	gcaaagttat	cagaggatgg	gatgaagctc	540
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aaggaaaaag	tcaactggga	aaaattcaag	ggngttaana	aaaanttggt	ttacctgggg	840
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<210> 208  
 <211> 745  
 <212> DNA  
 <213> Homo Sapiens

<400> 208						
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gggattttatc	tctcaaaagc	tgggaccaag	taaacaaatt	ttattaactc	cttgaatttt	180
ccagttgact	cttcccttac	aatagtaaca	agttctact	agttgtgtaa	atttcttcaa	240
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gttggtttta	cccccttttt	cagaacagat	ttaagtanat	tttgggggac	cctcanccaa	660
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<210> 209  
 <211> 965  
 <212> DNA  
 <213> Homo Sapiens

<400> 209						
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cagaacataa	attattagga	aacattaaaa	atgtggccaa	gacagctaac	aaggaccact	180
tggttacagc	ctataaccat	ctttttgaaa	ctaagcgttt	taagggtact	gaaagtataa	240
gtaaagtgtc	tgagcaagta	aaaaatgtga	agcttaatga	agataaaacc	aaagaaacca	300
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ggncccagcc	ttttgagaga	taaatccctt	angaaancc	ggtcnnaaaa	tactttccta	900
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aaact						965

<210> 210  
 <211> 867

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 210

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taagggattt	atctctcaaa	agctgggacc	aagtaaaca	attttattaa	ctccttgaat	180
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nccttangett	ttaaaaaaa	tgggttataa	gggctggtaa	ccnaagggtg	ggcccttggt	840
aaccngttct	tggggcaaaa	tttttaa				867

&lt;210&gt; 211

&lt;211&gt; 972

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 211

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cagaacataa	attattagga	aacattaaaa	atgtggccaa	gacagctaac	aaggaccact	180
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gaaagaaagg	acagcctgat	gccaaaattc	caccaaatgc	aaaactcact	tttgaagtgg	660
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taaaacttgg	ccttgaagaa	atttacacaa	ctagttagaa	cttggttacta	ttgtaaagga	780
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ggtcaaggag	aactttttcc	ttttacctca	tgttgtaaac	ttaagtggct	caataaaaaat	960
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&lt;210&gt; 212

&lt;211&gt; 817

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 212

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gagttaaaac	ggaaatttga	acagttgaaa	caggagagaa	ttagtgcata	tcagggggtg	480
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tggacgcatt	ttggggctcc	aaccactata	tgttgccctg	gccccanagg	aagggaanag	720
agaaaggntc	accttgacca	accagtttta	tgcaacgaan	tggtctgggaa	tngagaacca	780
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<210> 213

<211> 756

<212> DNA

<213> Homo Sapiens

<400> 213

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ggcactttat	gatacttttt	ctgcttttgg	aaacatactg	tcctgcaagg	tgggtgtgtga	180
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<211> 728

<212> DNA

<213> Homo Sapiens

<400> 214

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<211> 710

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<210> 216

<211> 824

<212> DNA

<213> Homo Sapiens

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<211> 749

<212> DNA

<213> Homo Sapiens

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<212> DNA  
<213> Homo Sapiens

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<213> Homo Sapiens

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&lt;210&gt; 221

&lt;211&gt; 833

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 221

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&lt;210&gt; 222

&lt;211&gt; 745

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 222

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&lt;210&gt; 223

&lt;211&gt; 747

&lt;212&gt; DNA



&lt;213&gt; Homo Sapiens

&lt;400&gt; 223

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&lt;210&gt; 224

&lt;211&gt; 618

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 224

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&lt;210&gt; 225

&lt;211&gt; 765

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 225

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&lt;210&gt; 229

&lt;211&gt; 552

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 229

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&lt;210&gt; 230

&lt;211&gt; 842

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 230

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&lt;210&gt; 231

&lt;211&gt; 781

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 231

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&lt;210&gt; 232

&lt;211&gt; 767

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 232

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&lt;210&gt; 233

&lt;211&gt; 879

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 233

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&lt;210&gt; 234

&lt;211&gt; 780

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 234

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&lt;210&gt; 235

&lt;211&gt; 780

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 235

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&lt;210&gt; 236

&lt;211&gt; 711

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 236

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<213> Homo Sapiens

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<211> 678

<212> DNA

<213> Homo Sapiens

<400> 238

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&lt;211&gt; 760

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 240

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&lt;211&gt; 745

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 241

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<400> 244

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<211> 592

<212> DNA

<213> Homo Sapiens

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<210> 246

<211> 821

<212> DNA

<213> Homo Sapiens

<400> 246

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<211> 639

<212> DNA

<213> Homo Sapiens

<400> 247

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&lt;210&gt; 248

&lt;211&gt; 846

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 248

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&lt;210&gt; 249

&lt;211&gt; 763

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 249

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&lt;210&gt; 250

&lt;211&gt; 899

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 250

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&lt;211&gt; 755

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 251

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&lt;211&gt; 753

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 252

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&lt;210&gt; 253

&lt;211&gt; 793

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 253

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&lt;211&gt; 625

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 254

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&lt;210&gt; 255

&lt;211&gt; 907

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 255

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&lt;210&gt; 256

&lt;211&gt; 794

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 256

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&lt;210&gt; 257

&lt;211&gt; 885

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 257

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&lt;210&gt; 258

&lt;211&gt; 798

&lt;212&gt; DNA

## &lt;213&gt; Homo Sapiens

## &lt;400&gt; 258

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## &lt;210&gt; 259

## &lt;211&gt; 831

## &lt;212&gt; DNA

## &lt;213&gt; Homo Sapiens

## &lt;400&gt; 259

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## &lt;210&gt; 260

## &lt;211&gt; 772

## &lt;212&gt; DNA

## &lt;213&gt; Homo Sapiens

## &lt;400&gt; 260

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<210> 261  
 <211> 753  
 <212> DNA  
 <213> Homo Sapiens

<400> 261						
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 <211> 659  
 <212> DNA  
 <213> Homo Sapiens

<400> 262						
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<210> 263  
 <211> 673  
 <212> DNA  
 <213> Homo Sapiens

<400> 263						
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ccacaaatcc agtgaacaac gatggcattt tgaaaaacag caaagttgaa gtcaagtgat      600
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&lt;210&gt; 264

&lt;211&gt; 661

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 264

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tgctggaana ctgggcacgg ctctgggtgc ctggccctgc ctgcctcctc cagtccttg      540
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c                                                                    661

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&lt;210&gt; 265

&lt;211&gt; 659

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 265

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&lt;210&gt; 266

&lt;211&gt; 620

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 266

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&lt;210&gt; 267

&lt;211&gt; 745

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 267

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&lt;210&gt; 268

&lt;211&gt; 676

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 268

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&lt;210&gt; 269

&lt;211&gt; 737

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 269

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&lt;211&gt; 726

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 270

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&lt;210&gt; 271

&lt;211&gt; 814

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 271

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&lt;210&gt; 272

&lt;211&gt; 862

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 272

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&lt;210&gt; 273

&lt;211&gt; 677

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 273

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&lt;210&gt; 274

&lt;211&gt; 863

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 274

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&lt;210&gt; 278

&lt;211&gt; 1358

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 278

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&lt;210&gt; 279

&lt;211&gt; 702

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 279

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&lt;210&gt; 280

&lt;211&gt; 874

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 280

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&lt;210&gt; 281

&lt;211&gt; 730

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 281

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&lt;210&gt; 282

&lt;211&gt; 699

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 282

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&lt;210&gt; 283

&lt;211&gt; 759

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 283

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&lt;210&gt; 284

&lt;211&gt; 764

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 284

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&lt;210&gt; 285

&lt;211&gt; 586

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 285

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&lt;210&gt; 286

&lt;211&gt; 666

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 286

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nagccattga	aaccaattga	cctactacac	aaganactaa	agatcttaca	ngagaaggca	660
atttct						666

&lt;210&gt; 287

&lt;211&gt; 782

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 287

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gaaagttcac	caagttctct	ccaatttcca	atcacgaaac	ttcaaccttg	ccgttctctg	720
ctgcctccat	gaaggatggg	ttacaaactg	cgggttccc	tttggggccg	aaaaattgcc	780
aa						782

&lt;210&gt; 288

&lt;211&gt; 707

&lt;212&gt; DNA



## &lt;213&gt; Homo Sapiens

&lt;400&gt; 288

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gtggttccag cgccggtttt gaccgccaca ttaccatttt ttcacccgag ggtcggtctt 60
accaagtaga atatgctttt aaggctatta accaggggtg ccttacatca gtagctgtca 120
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tgaagaagaa atttgattgg acatttgaac agacagtggg aactgcaatt acatgcctgt 600
ctactgttcc atcaattgan ttcaaacctt cagaaataga aattgggagt aatgacagtt 660
gaaaatccta aattcangan tcctacagaa gcagagattg atgctca 707

```

&lt;210&gt; 289

&lt;211&gt; 673

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 289

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atggcaccat cacaacaaag gaacttggaa ctgtcatgag gtcactgggt cagaacccaa 60
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gtcgttttta aaacgtcntg acgggggaaa accctggngt taccaactta atcccccttg 660
caacaaatnc ccc 673

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&lt;210&gt; 290

&lt;211&gt; 573

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 290

```

gcaagaggta agtaaaagat tcaatttgat tcttctanag gggggaaaaa ggagttgaaa 60
gtaggtcttc attttgagc catcatctgt acgaattctt canagttgac ttgtccgtct 120
ccatcaatat ctgcttcnct gatcatttca tctacttctt catctgttag tttttnccn 180
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aagactcgga atgcctcacg gatttcttct tcaactatctg tatctttcan ttttnagcc 300
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ccaagttccc tttggttggt aagggtgcc nctcgtgccc gaattccttt gggntccnac 480
gangggtcna accctgcana ggngccgcga anccccaan cttttgggtc ccttttanat 540
ngagggttaa atttcgaact ttgnttttt tcc 573

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&lt;210&gt; 291

&lt;211&gt; 819

&lt;212&gt; DNA

## &lt;213&gt; Homo Sapiens

## &lt;400&gt; 291

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gagtggaaag	acagatacaa	tgccctagga	gggtgcaggg	tcaagaggaa	gaggggagcc	120
cacgtgtcga	ggcagcaagt	ctaggcggca	gtggcaaaag	ctactctgtt	gttgcccaag	180
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gtgtacangc	tgctatccac	acccccaaag	gacaaccgct	cccccgctgg	gagccctgct	660
ggttgctgan	gtaaaccctg	aanacggggc	tggtnnagg	cgccctcctg	cacatgccct	720
gcataactgtg	gtggcctcat	ccacggncna	aaccanggta	aggcaaggcc	catgatgcca	780
tcaaaactgcc	ataacaaatt	tgtacaaggc	tcaatccca			819

## &lt;210&gt; 292

## &lt;211&gt; 664

## &lt;212&gt; DNA

## &lt;213&gt; Homo Sapiens

## &lt;400&gt; 292

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tccaagatct	gtgccaatgt	gttttgtgga	gccggccggg	aatgtgcagt	cacagagaaa	120
ggggaaccca	cctgtctctg	cattgagcaa	tgcaaacctc	acaagaggcc	tgtgtgtggc	180
agtaattggca	agacctacct	caacctctgt	gaactgcac	gagatgcctg	cctcactgga	240
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gccagcccg	ttgtttgcta	tcagtccaac	cgtgatgagc	tccgacgtcg	catcatccaa	360
tggttggaan	ctgagatcat	tccagatggc	tggttctcta	aaggcagcaa	ctacagtga	420
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aattcctgaa	gtttgtggga	acangaatga	aactgccatc	aatattacaa	cgtttccagn	540
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aactggtctg	gatgaaaaat	gcctgattgg	gnaattnaag	cttcccaant	agtttccnca	660
aatg						664

## &lt;210&gt; 293

## &lt;211&gt; 719

## &lt;212&gt; DNA

## &lt;213&gt; Homo Sapiens

## &lt;400&gt; 293

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caagttaaat	gcaatatana	agcctactaa	atacaaatat	aagttcacaa	acacatatgc	120
aacagaaact	tgtttanatt	gtttcttgaa	gtttgactac	ttaaaaacat	aggtgtaaa	180
gaaagacatt	cagactggtc	cacgtgggct	tgtagcagc	canaggaacc	ctgctttcca	240
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<210> 294  
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<212> DNA  
<213> Homo Sapiens

<400> 294

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cgtatccaga	ccaggagaa	aacaaagtgg	cttaggggac	tctgtgttga	tgccctcatt	540
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atgcagatgg	agnctgagac	cnaaggtgga	ccngtttacc	gcctgtgtcc	gggtgccggg	720
ggaaattggg	tcnggtncag	ccatgaacct	gttacgggaa	ag		762

<210> 295  
<211> 708  
<212> DNA  
<213> Homo Sapiens

<400> 295

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aacagaaact	tgtttanatt	gtttcttgaa	gtttgactac	ttaaaaacat	aggtgtaaag	180
gaaagacatt	cagactggtc	cacgtgggct	tgtagcagg	cagaggaacc	ctgctttcca	240
aaaactgata	tagtccagag	tcacggcatg	tgggaatgtt	tccatggaca	ctggatctta	300
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gtcctggatg	ataacatgt	tccaaatgac	taagtgaaga	gacactgtgg	gttcctgcct	660
tttaacaaaa	tgggggtact	cctgcccttc	ctcccccanaa	atgtccaa		708

<210> 296  
<211> 652  
<212> DNA  
<213> Homo Sapiens

<400> 296

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tggtcctcag	atcaagtgt	tctacggnat	anacgacaag	ctgccctatt	tacacagaag	540
ctgcangaac	tcaagaggga	atgtgggatt	gcccctgggg	agttcaatgg	ttgcangggg	600

aaaagttant cttgggntga ataaccaggt ttctaaaatg accaaattga aa

652

<210> 297

<211> 879

<212> DNA

<213> Homo Sapiens

<400> 297

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aacagaaact	tgtttagatt	gtttcttgaa	gtttgactac	ttaaaaacat	aggtgtaaag	180
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aaaactgata	tagtccagag	tcacggcatg	tgggaatgtt	tccatggaca	ctggatctta	300
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ctaagcccta	tgcttttaga	gggtgaagg	aaccaaacct	agttaaatec	tgtttgtttg	420
ctccatgcaa	aactttatgg	aagactcccc	agactaggct	atttagcagc	ttccatgaat	480
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catttcaaga	ccggaacaaa	ttgggagttt	tgaaaaaagt	ttttaaatng	ggaatggggt	840
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<210> 298

<211> 697

<212> DNA

<213> Homo Sapiens

<400> 298

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tgaaacatta	agttatacca	ctgaggaagc	agaaatggga	agaaaagtgg	gcgaaagtgg	660
caactccccg	gttaacngng	aaaangcctg	gatatcc			697

<210> 299

<211> 510

<212> DNA

<213> Homo Sapiens

<400> 299

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<210> 300  
 <211> 625  
 <212> DNA  
 <213> Homo Sapiens

<400> 300						
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tgaaggaaaa	tctgaagaag	taaatgaaac	attagttata	cccactgagg	aagcagaaat	180
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<400> 301						
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<210> 302  
 <211> 738  
 <212> DNA  
 <213> Homo Sapiens

<400> 302						
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<212> DNA

<213> Homo Sapiens

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&lt;210&gt; 308

&lt;211&gt; 833

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 308

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&lt;213&gt; Homo Sapiens

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&lt;213&gt; Homo Sapiens

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&lt;213&gt; Homo Sapiens

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&lt;213&gt; Homo Sapiens

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&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

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&lt;210&gt; 317

&lt;211&gt; 835

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 317

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gggacaagat agaataccta cagaagaagc taagccatgg gcaagcagga agaagaagca      660
ctcctctctg aaatgggatg tcacaaggcc aagcctttga agacatgcag gagcaaaaat      720
atccgntttg attgcagcaa nttgccggga anaanggatg atgccaaatt ttcaaagccc      780
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&lt;210&gt; 318

&lt;211&gt; 582

&lt;212&gt; DNA

## &lt;213&gt; Homo Sapiens

## &lt;400&gt; 318

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canagctcac	caagttcncn	ccgtatcaaa	ttcccanaat	accacacaaga	tttcttcacc	180
anctcantcc	tgactcaacc	tcttcaatct	ttanttcatt	agaagacaaa	gggtcanatt	240
atttaaaatt	antcnantcc	caagaaattt	aaagacttga	agtagtagag	cattcaaaac	300
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## &lt;210&gt; 319

## &lt;211&gt; 827

## &lt;212&gt; DNA

## &lt;213&gt; Homo Sapiens

## &lt;400&gt; 319

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gatagaaaag	gaccagcaga	agtagacact	gtggatgcac	tccagggtcg	gcagaaggat	300
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## &lt;210&gt; 320

## &lt;211&gt; 598

## &lt;212&gt; DNA

## &lt;213&gt; Homo Sapiens

## &lt;400&gt; 320

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## &lt;210&gt; 321

## &lt;211&gt; 808

## &lt;212&gt; DNA

## &lt;213&gt; Homo Sapiens

## &lt;400&gt; 321

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ccctatccaa	accnttaac	aagaaagacc	tttaanaag	tccaatgtcc	ngtnaccaac	780
cggacaaggg	agccaatctt	gggaaaaa				808

## &lt;210&gt; 322

## &lt;211&gt; 629

## &lt;212&gt; DNA

## &lt;213&gt; Homo Sapiens

## &lt;400&gt; 322

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tacattgcct	ttttgcctgt	agagaaccca	tgaggagagg	ggttctcagc	cttccagtg	180
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agggctgggn	taaggacatt	gggtncccc				629

## &lt;210&gt; 323

## &lt;211&gt; 798

## &lt;212&gt; DNA

## &lt;213&gt; Homo Sapiens

## &lt;400&gt; 323

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tagattttcc	cagagctgct	gaaggagcct	tgatatggga	aaatgaattt	ttattaccaa	720
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798

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<212> DNA  
<213> Homo Sapiens

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tctctctaca taaccttgta aggccttcagt aactaaaatg taaaaccaaa caaaacaaaa 180  
ccccaaaaca aaacaaaaac cccagcctat tagtttacag tttattttta aaattccgaa 240  
agacactgca agttctaaac ttttagtagt gctaccata cacaaccatc tggtaagaa 300  
cccagtaaaa gagccccctt ccaaggaagc tttgcaacag tagagttgtg caatatggat 360  
gtttcttact acaagaaaaa aattatacat ggcacattct cattcatatt ctgtaatgta 420  
aaaagttaca aacataccta atcaataaaa taataataaa aaaagaattt gaatgtattt 480  
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aatgttttcc ataataaaga tctagcanca tgactatcct aatgccgttt tatccgaat 660  
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caaaaaatat ccttttaca gaaagaaacc cggt 754

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<212> DNA  
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acanggaatt gacaagatct tctcaggaa aaagcatcgc aacctgggtc tcaaggngtt 780  
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tggaagtcca anga 854

<210> 326  
<211> 760  
<212> DNA  
<213> Homo Sapiens

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atttaaaatt attctagtct caagaaattt aaagacttga agtagtagag cattcaaaac 300

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caagataaac	aaagcctggg	aagggaagac	agttaagagt	tatttgtttc	caantcaatc	720
cnaaaaccca	anggcttgta	attaacaagt	cctttccggc			760

&lt;210&gt; 327

&lt;211&gt; 852

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 327

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&lt;210&gt; 328

&lt;211&gt; 799

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 328

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&lt;210&gt; 329

&lt;211&gt; 978

&lt;212&gt; DNA

## &lt;213&gt; Homo Sapiens

&lt;400&gt; 329

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&lt;210&gt; 330

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 330

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&lt;210&gt; 331

&lt;211&gt; 799

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 331

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&lt;211&gt; 881

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 332

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&lt;211&gt; 810

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 333

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&lt;210&gt; 334

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<400> 335

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<400> 336

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&lt;210&gt; 337

&lt;211&gt; 643

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 337

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&lt;210&gt; 338

&lt;211&gt; 831

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 338

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&lt;210&gt; 339

&lt;211&gt; 758

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 339

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&lt;211&gt; 840

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 340

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&lt;210&gt; 341

&lt;211&gt; 793

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 341

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&lt;210&gt; 342

&lt;211&gt; 906

&lt;212&gt; DNA

## &lt;213&gt; Homo Sapiens

&lt;400&gt; 342

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&lt;210&gt; 343

&lt;211&gt; 875

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 343

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&lt;210&gt; 344

&lt;211&gt; 629

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 344

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&lt;210&gt; 345

&lt;211&gt; 724

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 345

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&lt;210&gt; 346

&lt;211&gt; 907

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 346

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&lt;210&gt; 347

&lt;211&gt; 711

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 347

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&lt;210&gt; 348

&lt;211&gt; 862

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 348

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&lt;210&gt; 349

&lt;211&gt; 832

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 349

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<212> DNA  
<213> Homo Sapiens

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cngatnccaa aaccnaaata agtaaaaaan ccanggggaa nccngancat tcnacctnng 240  
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tcaggctnat tcttccacaa atntaaacct tgaggggata tgaaggaacc caacttcngg 660  
aaangaaaac tcaattcana aattgaagaa acctggcagg tatacaatac cccccaggn 720  
catntcaana tccctggcac aagnnccaat tcagggnctt ggtaccagcc ccatagaana 780  
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<212> DNA  
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<212> DNA  
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<400> 352  
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gtgattccaa aaacgaaaata agtagaaaat ccatggtgaa acctgaacat tctacctctg 240  
ctttggagaa gggctatcat acaacattca gtcagctgaa gatggattgg tagagggtgtg 300  
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gaatgggcag tctgtggctt ttttctcttt tccatattcc caacaaggct acgtgaagtt 420  
caactcttga tgagccgctt acaacagcag ttccttagga gccaacatga caggtgggtc 480



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tcatgcttaa tnccttcaaa tctaaacctt gagngatat tgaanggaaa cccaccttca      660
nggaaaagaa aacctcaatt tcagaaatgg aagaaaaact ggcagggtat accaatacac      720
ccccccagag cattttttaa atatccctgg ncacaagtnc caattcaagg gnacctgggt      780
ccgggccata gaataaaana ntgggcactt tggaaaaaag cncatttttt ttccttctag      840
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&lt;210&gt; 353

&lt;211&gt; 875

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 353

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ccccagagca tcttcaatat cccctgggca cagtncccaa ttcagggact gggtagaggc      780
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&lt;210&gt; 354

&lt;211&gt; 705

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 354

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&lt;210&gt; 355

&lt;211&gt; 862

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 355

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&lt;210&gt; 356

&lt;211&gt; 750

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 356

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&lt;210&gt; 357

&lt;211&gt; 725

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 357

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 <212> DNA  
 <213> Homo Sapiens

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 <212> DNA  
 <213> Homo Sapiens

<400> 360  
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&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 361

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&lt;211&gt; 747

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 362

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&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 363

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&lt;211&gt; 831

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 364

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&lt;211&gt; 785

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 365

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&lt;211&gt; 816

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 366

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&lt;211&gt; 803

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 367

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&lt;211&gt; 809

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 368

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&lt;211&gt; 826

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 369

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&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

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&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 374

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&lt;210&gt; 375

&lt;211&gt; 734

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 375

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&lt;210&gt; 376

&lt;211&gt; 822

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 376

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<212> DNA

<213> Homo Sapiens

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&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 382

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&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 383

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&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 384

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<212> DNA  
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&lt;210&gt; 388

&lt;211&gt; 753

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 388

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&lt;210&gt; 389

&lt;211&gt; 737

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 389

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&lt;210&gt; 390

&lt;211&gt; 775

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 390

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&lt;210&gt; 391

&lt;211&gt; 776

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 391

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&lt;210&gt; 392

&lt;211&gt; 909

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 392

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 <212> DNA  
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 <212> DNA  
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&lt;210&gt; 399

&lt;211&gt; 800

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 399

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&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 400

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810

&lt;210&gt; 401

&lt;211&gt; 860

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 401

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&lt;210&gt; 402

&lt;211&gt; 779

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 402

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&lt;210&gt; 403

&lt;211&gt; 1443

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 403

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&lt;210&gt; 404

&lt;211&gt; 819

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 404

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&lt;210&gt; 405

&lt;211&gt; 761

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 405

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&lt;210&gt; 406

&lt;211&gt; 758

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 406

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&lt;210&gt; 407

&lt;211&gt; 778

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 407

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&lt;210&gt; 408

&lt;211&gt; 752

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 408

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<213> Homo Sapiens

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<211> 766

<212> DNA

<213> Homo Sapiens

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<212> DNA

<213> Homo Sapiens

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<211> 857

<212> DNA

<213> Homo Sapiens

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<212> DNA

<213> Homo Sapiens

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 <212> DNA  
 <213> Homo Sapiens

<400> 414						
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gcangctggn	ctatngcaan	ntgggnctna	nnctgnanaa	tcannngcng	ccatgmnaga	240
tnaatagaag	ctcatnntgt	cataaatggn	ccatgactta	taaatnaagt	ggactggata	300
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agaggncnac	cttgtntnan	ctnntgcngc	tgnaagancc	agaganannt	gccttgggag	420
attcatggcc	natgatagta	tatnatctct	tacaccanac	atgccttgct	gnatcncaaa	480
tctggacata	cacgntttcc	ccatctcaga	cttctttgca	gcagctgctt	nccnacnnta	540
cccatgaacg	acanttgctt	acgntanagc	ntgaacnatin	tgatgagctt	cntcagccca	600
gacctcatca	tttcgagaag	cacatgtccc	tgcgtttcaa	cctatggatg	aggaaaagnc	660
ctngngctta	aagctcttga	aaatccttta	cacnngaanc	nttctgcata	gcttnaatca	720
ctctgagntg	cccacatngn	gtnttggaag	gcttccggnt	annatgggtc	cgggacctnc	780
aacctttccg	tttgaatnct	nacntgaccg	ganagggtnt	gcctgggttc	cttngccnc	840
gaacttaacc	ntcacaattn	ggntgngant	tcntggtaac	ggcntaatct	nccccaggaa	900
ttggccgctg	cttcnaccgg	aattaanggg	aatctttccc	atcccnctta	nnaccagtta	960
ggngcccntt	tttcaatttt	cngactcccc	gagcttttaa	aaaccggggg	ccttaggttn	1020
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<210> 415  
 <211> 824  
 <212> DNA  
 <213> Homo Sapiens

<400> 415						
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taaatatcac	aggaaatata	ntgcattttc	aagntgnana	gacnaatact	tnctcattca	180
cagngnttga	catanganag	cctattttaca	tancnatctg	tataaagtca	tgctctnant	240
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cactnntggn	gctggggatc	tganaagcc	acctgnanaa	gcttcaactc	gagcangact	360
cannaatgnc	ttnggccctt	taggtggcac	tggtgtgga	agtggttaag	ctgctgctga	420
actcaattcg	tggaactgnag	aattaggaat	ggganccagg	cgggttnggat	gaccattgcc	480
cactcnanca	natnccaaag	nnctnagaan	gggaacnctc	caancctgct	tnatggngat	540
taancatnct	tcttcttttg	cttaacccat	ggattananc	acancagcna	gtacngactt	600
ggnttttacc	ncttcngttg	gaaataagga	ttcttgatng	actaaannnc	agctggtnaa	660
aacntaactn	tcctcaatt	tagcnttatt	ntatgaancc	ggggcctant	ntcntgttca	720
aaaangngnt	tttaagttcc	ggtaatccta	ccggnaaatta	nttgggggct	ntgaattcan	780
cnccttana	anatttnggn	ttaccatttn	aatccaaagg	ccac		824

<210> 416  
 <211> 838  
 <212> DNA

<213> Homo Sapiens

<400> 416

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aaatacacaa	ttttactagc	aaatgcctct	actgtaatcg	ctatttaccc	acagatactc	180
tgtctaacca	tatgttaatt	catggctctg	ctgtgccata	ttgccgttca	actttcaatg	240
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aaacagattc	tactttgagt	tttgatttga	cattgcagca	gggtagtca	actaacatcc	360
atctcctggt	aactacatac	aatctgaggg	atgccccagc	tgaatctgtt	gcttaccatg	420
cccaaaataa	tcctccagtt	cctccaaagc	cacagccaaa	ggttcaggaa	aaggcagata	480
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tacgagagag	gcaccaagtt	attcagacgg	tcacccagtt	tgagaaaaag	ctnacctaca	660
aatgnatcca	ttggcttggt	gngnatacca	gcaacatgga	ncggctnaac	tatcacttct	720
gnatctagnt	cactgggangg	gccgttttgn	aagganccca	aatgggccag	gataagacaa	780
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<210> 417

<211> 880

<212> DNA

<213> Homo Sapiens

<400> 417

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tgatggtgtt	gaactaaaga	taaaactaaa	tatccaaaat	gcagcactca	ttggtttgct	180
gcttcaacac	aacacacttt	tatacagatc	taaaagggtg	caaaattagt	agctgcaaa	240
tcaattcttg	catgtgattt	tagcttaaaa	gatttcagaa	aacagatctg	aaataccagt	300
ttttgttttt	gacagctgta	atgtcaagga	tattcagaac	aagaaaaatc	ctataatata	360
agagagtcca	gatatatata	ttacgtggct	ggcctctgtt	gcaagattgt	acaagggtat	420
gtgcaaaaac	taagtctgtc	caaaaagtcc	atactagcgc	agttttgagc	ttttgctagg	480
taaactagat	agagcgttta	ttacacagca	agggcaacac	taaaaaaaga	aatctatgat	540
gggcacacag	taacaggatc	atgagcatca	cttgaatagg	tctaaaagac	tgtcaaatat	600
acatttcaac	tattcagaat	gaatacatga	aaaaaaatcg	cttttcccaa	aggtctacta	660
tacncattan	actgggagct	tgnatgttgg	gccctacact	accatgggga	attangttta	720
acacttntta	aaaacatttg	gccaatcatt	tcncagangg	gaaagaaatg	ttgaaaaggc	780
cgataaaata	aacccttggg	ttttcctcgg	gggattcatg	gagtcacccg	ccttaatggg	840
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<210> 418

<211> 763

<212> DNA

<213> Homo Sapiens

<400> 418

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cgggaacatc	ttctgtgtca	acaacaacca	gcagtagcac	caccaccacc	atcaccactt	120
cctcctctcg	aatgcagcag	ccacagatct	ctgtctacag	tggttcagac	cgacatgctg	180
tacaggtaat	tcaacaggca	ttgcatcggc	ccccagctc	agctgctcag	taccttcagc	240
aaatgtatgc	agcccaacaa	cagcacttga	tgctgcatac	tgacgtctct	cagcagcagc	300
atttaagcag	ctcccagctt	cagagccttg	ctgtgtttca	ggcaagtttg	tccagtggaa	360
gaccatctac	atctcccaca	ggaagtgtca	cacagcagtc	aagtatgtcc	caaactctctg	420
tagaaattct	tatggactgg	aatcttcctc	aaggttact	ttgttcctgg	gatgcagtgg	480
tgcatagaag	atagggcatt	gactcactca	gacctggctt	gccagcatg	cattgcaaca	540

ataatgtgca agttattaaa gacatgagtg aattcgtgac agattgtcag aaaagaaaca	600
agagtttttct acaacaaaaa actggcttat ggaacatata cttctgcttg agttgaatgt	660
gttggggctg agtgttaagaa aatgcaagct gcaaactctg cttacatgtg gaaccaaagc	720
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<210> 419  
 <211> 753  
 <212> DNA  
 <213> Homo Sapiens

<400> 419	
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tggattcact acttttttta nagngtogtt ttaccactac tattggccta ttacctgtat	180
ctcttttttt taatggcatt tctctaggat ttacaatatg catcttttagc ttatagtatc	240
ttgaaatagt agngtaacac ttcacaaata gagtaaaaaac cttataatct tccatttttc	300
ccttcttctc tttgtgctat tgatgaacna tttttactcc tacagatatt ataaacaaat	360
tgatatacnc acattatcat ttttgcttta catactcaat tatcttttaa ataaaataaa	420
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ctttgngtag attcaaattt ctgncatctt ccttttgccc aaagaacttc ttttcatctt	540
tcttatagtt caggtctgct ggcaaccaat tagctcagcc tttggtttgc taaaaaggtt	600
catatattat cttgattttc aaatggnatt taagctctat ataggaaattc ttaggtgact	660
ttaattcctt catcattggg aagangtcat aaagggcttg caaaggacta gaaatctgct	720
tacatttttt natttggtaa tctttcttac cca	753

<210> 420  
 <211> 799  
 <212> DNA  
 <213> Homo Sapiens

<400> 420	
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tcgtgtaaat tcattagtgt gcttaggaaa gatthttggaa tacttggata agtggtttgt	120
acttgatgat atctaccct tcttacaaca aattccatcc aaggaaactg cggtcctcat	180
gggaatttta ggtatttaca aatgtacttt tactcataag aagttgggaa tcaccaaaga	240
gcagctggcc ggaaaagtgt tgctcatctt tattcccttg agtattgaaa acaatcttaa	300
tcttaatcag ttcaattctt tcatttccgt cataaaagaa atgcttaata gattggagtc	360
tgaacataag actaaactgg agcaacttca tataatgcaa gaacagcaga aatctttgga	420
tataggaaat caaatgaatg tttctgagga gatgaaagtt acaaatattg ggaatcagca	480
aattgacaaa gtttttaaca acattggagc agacctctg actggcagtg agtccgaaaa	540
taaagaggac gggttacaga ataaacataa aagagcatca cttacacttg aagaaaaaca	600
aaaattagca aaagaacaag agcaggcaca gaagctgaaa agccagcagc ctcttaaacc	660
ccaagtgcac acacctgttg ctactgttaa acagactaag gacttgacag acacactgat	720
ggataaatatg tcatccttga ccagccnttc tggtagtacc cctaaatctt ctgcttcaag	780
tctttcactt ctggtcctt	799

<210> 421  
 <211> 770  
 <212> DNA  
 <213> Homo Sapiens

<400> 421	
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agggaaacca ttgtgtaaaa cagtaggcgg atctttcaga gactccaaat cattgacaat	180

tcagaaggat	cttgtcgtg	catttgacaa	cggagaccag	aagggtgttct	tcgatctgtg	240
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ctatctccac	atccattttg	ccatctatct	tttgaagtac	tctgtgggga	gaccggacaa	360
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gttggaanaag	tttctagctt	taatatctaa	agccagcaac	acgccaaaagc	ttttaacaat	600
atataaggag	aatgggacan	agtaacaaag	aaatcttgca	gcagcttcac	cagcagctgg	660
ntgaagcttg	aaccgtaggt	caatgacata	cctcaaacgg	naccataaga	tccaggcccc	720
actaccacaa	tctcantgga	gtcacagcan	aactggtggg	attctcttga		770

<210> 422

<211> 733

<212> DNA

<213> Homo Sapiens

<400> 422

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aaagcttaag	aaagtcaatt	cccgcttcc	ttagccctga	cttacactgg	gtaccggttt	120
ctgtggccgc	cgggggtgac	ggncctttgc	aggggctcat	ccccgctcca	ctgcacatta	180
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tcggcttcca	tgatgtcatg	gncctcttca	tcattctcat	cttcatcatc	atcagattca	360
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cttgcttcc	cacgaatgga	tggancagaa	aggatgctgt	acagagctcc	attcacatac	540
ggctgtatct	catggttttc	atggccaaga	agatccgaaa	ggactttgag	caccgaggcc	600
tgccaccttg	gcacacatgg	tcttccctgn	gctgcgagg	gcagaggttc	atggagcaaa	660
agccaccgag	tactccaacg	gggnagccag	acagggcgag	cagggctcct	tcanaacatc	720
aacccagccc	gaa					733

<210> 423

<211> 862

<212> DNA

<213> Homo Sapiens

<400> 423

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atcgagaaaac	tgcacctgtt	tcccagcctg	aaaacaaaacc	agaaaagtaag	ccaggccccag	180
ttggaccaga	actccctcct	ggacacatcc	caattcaagt	gatccgcaaa	gaggtggatt	240
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ctgctccagt	tccctgtcct	cctcccagcc	ctggcccttc	tgtgttcccc	tcttccccca	360
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caaaaccagg	agaagccgag	gctcccccaa	aacatccagg	agtgtctgaaa	gtggaagcca	480
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tggaccccga	gggacgaagc	cgatgtgcgt	caggccagga	gagacggtgt	caggaagggt	660
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atgaacttca	agccaagcaa	ccnttgaagc	agatcaagcc	cctggaggca	atcatggaaa	780
aggggtgccgt	ggcagcaaga	caagggcaag	aaaaatgctt	ggaaatggcn	gaagatcccc	840
acacnggaaa	ccagcaggcc	cg				862

<210> 424

<211> 859

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 424

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gagatgaaga	aaatcatctc	attaaaatgg	caacatttct	gataaatggt	tcatatttat	180
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aaccacagct	aacaggtggg	gggggtgccc	aagtagacag	ggctgcagaa	caagcaacgg	300
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&lt;210&gt; 425

&lt;211&gt; 837

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 425

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gaagaattag	cttggaacnc	cttttggcaa	ttgaacttgt	cncaggtaat	gccatttt	837

&lt;210&gt; 426

&lt;211&gt; 724

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 426

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tctatacaga	gctgtgccaa	cacaattctt	tcagaatgtg	aagtaccggg	caaaccactc	300
ctggcgctgg	ggatctggag	aagccactgg	agaagcttca	ctctgagcag	gactcaaaaa	360
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atcgtggact	ggagaattag	gaatgggata	caggcgggtta	ggatgtccat	tgcccactcc	480

accagattcc agagcactta nattgggaac actcaciaaac ctgtttgttg gtgatttate 540  
attcttcttc ttttgcttag ccaatggatt aataacacca acagtaggac ttgagttaaa 600  
cactttggtg aaagttagtt tctcgaattg actaattcca gctgataaaa cttattatcc 660  
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catc 724

<210> 427  
<211> 981  
<212> DNA  
<213> Homo Sapiens

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gatgccgata tgtttgaaaa cttaaatgaa acggaaaaaat tcttgaaaga accacaantt 480  
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ggttnacaaa ccaactcccc antaccnaaa ttataaattg ctcaagttcc tgatataaaa 600  
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ccaaatatatt tntaattccc caattnggtt ggaatcttgg gaaccccatg gngggganc 840  
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<211> 655  
<212> DNA  
<213> Homo Sapiens

<400> 428  
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<210> 429  
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<212> DNA  
<213> Homo Sapiens

<400> 429  
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&lt;210&gt; 430

&lt;211&gt; 655

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 430

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&lt;210&gt; 431

&lt;211&gt; 844

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 431

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&lt;210&gt; 432

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 <212> DNA  
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<400> 432

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 <212> DNA  
 <213> Homo Sapiens

<400> 433

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 <212> DNA  
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<400> 434

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 <212> DNA  
 <213> Homo Sapiens

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<400> 437

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&lt;210&gt; 438

&lt;211&gt; 678

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 438

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&lt;210&gt; 439

&lt;211&gt; 826

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 439

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 <213> Homo Sapiens

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<211> 875

<212> DNA

<213> Homo Sapiens

<400> 443

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<210> 444

<211> 756

<212> DNA

<213> Homo Sapiens

<400> 444

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ttttctataa	ataatacntg	nattttgggt	ttaaggctcc	cgccctaang	nttgaagggt	660
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<210> 445

<211> 783

<212> DNA

<213> Homo Sapiens

<400> 445

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cct						783

&lt;210&gt; 446

&lt;211&gt; 866

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 446

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ctaatectgg	gccagtttnc	aaaagc				866

&lt;210&gt; 447

&lt;211&gt; 789

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 447

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ctaataaaaa	agtagagatt	caaaaacatg	ccacaggaaa	gaagtctcca	gcaaagagtc	540
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aaaaaatgg

789

&lt;210&gt; 448

&lt;211&gt; 820

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 448

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&lt;210&gt; 449

&lt;211&gt; 936

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 449

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tccagaagaa	atatgaatgt	gagttagaaa	atttaaggaa	agccacctca	aatgcaaacc	300
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&lt;210&gt; 450

&lt;211&gt; 806

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 450

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gaagccattt	ataaatcaca	ccaatcttgc	ttgggttaaa	caatagaaag	taacactttt	240
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<210> 451

<211> 909

<212> DNA

<213> Homo Sapiens

<400> 451

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<210> 452

<211> 672

<212> DNA

<213> Homo Sapiens

<400> 452

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<210> 453

<211> 834  
 <212> DNA  
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<400> 453  
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<210> 454  
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 <212> DNA  
 <213> Homo Sapiens

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 aggccttggt nccgaatgtc gcatttgggg gacgaaaaag gtgcttccgc tgcctgaaag 660  
 gnttggccca attnggtaca agatatagtt cccacacctt ggg 703

<210> 455  
 <211> 825  
 <212> DNA  
 <213> Homo Sapiens

<400> 455  
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gaacgttnca	tgggtgatca	caattgaacg	tgtgcacaag	aagctganga	cttgtggaat	780
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<210> 456  
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 <212> DNA  
 <213> Homo Sapiens

<400> 456						
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<210> 457  
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 <212> DNA  
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<400> 457						
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 <213> Homo Sapiens

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&lt;211&gt; 761

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 459

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&lt;211&gt; 876

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 460

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&lt;210&gt; 467

&lt;211&gt; 885

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 467

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&lt;210&gt; 468

&lt;211&gt; 748

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 468

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&lt;210&gt; 469

&lt;211&gt; 770

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 469

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&lt;210&gt; 470

&lt;211&gt; 892

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 470

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&lt;210&gt; 471

&lt;211&gt; 759

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 471

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&lt;210&gt; 472

&lt;211&gt; 852

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 472

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&lt;211&gt; 804

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 473

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804

&lt;210&gt; 474

&lt;211&gt; 819

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 474

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&lt;210&gt; 475

&lt;211&gt; 721

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 475

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a						721

&lt;210&gt; 476

&lt;211&gt; 442

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 476

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&lt;210&gt; 480

&lt;211&gt; 812

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 480

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&lt;210&gt; 481

&lt;211&gt; 1127

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 481

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<211> 773

<212> DNA

<213> Homo Sapiens

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<211> 794

<212> DNA

<213> Homo Sapiens

<400> 483

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<211> 788

<212> DNA

<213> Homo Sapiens

<400> 484

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&lt;210&gt; 485

&lt;211&gt; 430

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 485

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&lt;210&gt; 486

&lt;211&gt; 831

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 486

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&lt;210&gt; 487

&lt;211&gt; 728

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 487

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taaaatgc						728

&lt;210&gt; 488

&lt;211&gt; 788

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 488

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&lt;210&gt; 489

&lt;211&gt; 875

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 489

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<211> 825  
<212> DNA  
<213> Homo Sapiens

<400> 491

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<212> DNA  
<213> Homo Sapiens

<400> 492

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&lt;210&gt; 493

&lt;211&gt; 804

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 493

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&lt;210&gt; 494

&lt;211&gt; 856

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 494

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&lt;210&gt; 495

&lt;211&gt; 757

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 495

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&lt;210&gt; 496

&lt;211&gt; 1759

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 496

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<212> DNA  
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&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

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&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

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&lt;213&gt; Homo Sapiens

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&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 505

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&lt;213&gt; Homo Sapiens

&lt;400&gt; 506

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&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 508

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&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 509

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&lt;213&gt; Homo Sapiens

&lt;400&gt; 510

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&lt;210&gt; 511

&lt;211&gt; 712

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 511

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&lt;211&gt; 850

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

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&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 513

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&lt;213&gt; Homo Sapiens

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<400> 517

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&lt;210&gt; 521

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&lt;213&gt; Homo Sapiens

&lt;400&gt; 521

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&lt;211&gt; 766

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&lt;213&gt; Homo Sapiens

&lt;400&gt; 524

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&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 525

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&lt;213&gt; Homo Sapiens

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&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

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&lt;213&gt; Homo Sapiens

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&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

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&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

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&lt;213&gt; Homo Sapiens

&lt;400&gt; 537

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tcgcaagggtc tggatgaaat gtcnntgatg tgtggaagca cttaaagagg agaagaagt 780  
ccggttggaa ctggaaaaaa gaactggagn tccaaatggg aatgaaaacc caaatnggaa 840  
atgccatgaa gttcttgga aaggccccc ccaa 874

<210> 541  
<211> 729  
<212> DNA  
<213> Homo Sapiens

<400> 541  
gaaaaataaa tgattttatt gcagggccaa tgataggtag tcacaagggc atgaaatggc 60  
agatctcttg tctgaagcag agaaggcaca ctggcagact ccatgtgtgt caaacgctgt 120  
gcatgaatca ggtttttaga aggaaggtag gagaggaaaa ctactcacta gcagaactga 180  
actgctgtaa aataggttaa attctttgaa aagtgaaaaa tgatagtagc aaaatcatga 240

```

agttgtatct gaaccagagc cgtgatgtaa ccaagtaaga tggaggtttc catccagagg 300
agttaattcc gaacaagtca cagaaagggt agagctgccg gttccggcac gctgtcttct 360
ggagtgccag tgaccgggca agaaatttga ttctttcctt tgattctctt gggaaagaac 420
acatttccca agcccttggg gacccacagg gtttggcact gtccgtgagg ctgtgtctct 480
gaggacggac gttcaggagg ccgtggagga gcagcgtcgc aggagcaggg tgtggcagct 540
gtcgcacact cgcaccggct tggggtagga gggcagggcc cagctcgttg ctgggagcag 600
gtgtttgcan aagatgtggc ccacagttcc ggcagtnggt gctttctccg gggaaaatgg 660
agaacttctt ttntcacacn tggctaccag tggggtcgnt ttcggcatct tttcaagcca 720
ggcgtggg 729

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<210> 542  
 <211> 830  
 <212> DNA  
 <213> Homo Sapiens

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<400> 542
gggacagcgg ggacggcacg gcgcgcgcag cttctaagtg ccagatgatg gaggagcgtg 60
ccaacctgat gcacatgatg aaactcagca tcaagggtgt gctccagtcg gctctgagcc 120
tgggcccag cctggatgcg gaccatgccc ccttgcagca gttctttgta gtgatggagc 180
actgcctcaa acatgggctg aaagttaaaga agagttttat tggccaaaat aaatcattct 240
ttggtctctt ggagctggtg gagaaacttt gtccagaagc atcagatata gcgactagtg 300
tcagaaatct tccagaatta aagacagctg tgggaagagg ccgagcgtgg ctttatcttg 360
cactcatgca aaagaaactg gcagattatc tgaagtgctt tatagacaat aaacatctct 420
taagcgagtt ctatgagcct gaggttttaa tgatggagga agaagggatg gtgattgttg 480
gtctgctggt gggactcaat gttctcgatg ccaatctctg cttgaaagga gaagacttgg 540
attctcaggt tggagtaata gatttttccc tctaccttaa ggatgtgcag gatcttgatg 600
gtggcaagga gcatgaaaga attactgatg tccttgatca aaaaaattat gtggaagaac 660
ttaacccggc acttgagctg caccagttgg ggatctttca acccaagata gatggctttg 720
gaaaagacta actcaaagct tcagaagagc ntnnagctgc accagaccga attttgctcc 780
tttcaagaaa nacagcacn gttaagaaaa ccaaatggaa ttaatttcag 830

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<210> 543  
 <211> 733  
 <212> DNA  
 <213> Homo Sapiens

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<400> 543
gaaaaataaa tgattttatt gcaggggcaa tgataggtag tcacaagggc atgaaatggc 60
agatctcttg tctgaagcag agaaggcaca ctggcagact ccagtgtgtg caaacgctgt 120
gcatgaatca ggtttttaga aggaaggtag gagaggaaaa ctactcacta gcagaactga 180
actgctgtaa aatagggttaa attctttgaa aagtgaaaaa tgatagtagc aaaatcatga 240
agttgtatct gaaccagagc cgtgatgtaa ccaagtaaga tggaggtttc catccagagg 300
agttaattcc gaacaagtca cagaaagggt anagctgccg gttccggcac gctgtcttct 360
ggagtgccag tgaccgggca agaaatttga ttctttcctt tgattctctt gggaaagaac 420
acatttccca agcccttggg gacccacagg gtttggcact gtccgtgagg ctgtgtctct 480
gaggacggac gttcaggagg cccgtggagg agcagcgtcg caggagcagg gtgtggcagc 540
tgtcgcacac tcgcaccggc ttggggtagg anggcagggc tagctcgttg ctggancang 600
tgttgcaaaa naatgtggcc acagntncgg cagtgggtgc tttntccggg aaaagggaga 660
acttcttnt cacacttggc tacagnngng gncgcttctg ncatcttttt anccaggcgc 720
nnggcccttt caa 733

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<210> 544  
 <211> 852  
 <212> DNA  
 <213> Homo Sapiens

&lt;400&gt; 544

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gtggagaaat gcgctatcag ctgaataaaa ccaacatgga gaaggatgag gcagaaaagg      60
agcacagaga gttcagagca aaaactaaca gggatcttga aattaaagat caggaaatag      120
agaaattgag aatagaactg gatgaaagca aacaacactt ggaacaggag cagcagaagg      180
cagccctggc cagagaggag tgcctgagac taacagaact gctgggcgaa tctgagcacc      240
aactgcacct caccagatct gaaatagctc aactcagtca agaaaaaagg tatacatatg      300
ataaattggg aaagttacag agaagaaatg aagaattgga ggaacagtgt gtccagcatg      360
ggagagtaca tgagacgatg aagcaaaggc taaggcagct ggataagcac agccaggcca      420
cagcccagca gctggtgcag ctctcagca agcagaacca gcttctcctg gagaggcaga      480
gcctgtcggg agaggtggac cggctgcgga ccagttacc cagcatgcca caatctgatt      540
gctgacctgg atggaacaga gtgaaataaa tgaattacaa agagatatatt acattcatct      600
ggtttagact taatatgcca caacgcacca cgaccttccc aggggtgacac cgcctcagcc      660
tgcagtgggg ctggtcctca tcaacgcggg cgtgttcccc gcacgcagtc gggctggagc      720
tggagtctga ctctagctga gcagactcct ggtgtatgtt ttcagaaatg gcttgaagtt      780
atgtgtttaa atctgctcat tcgtatgcta gggtatacat atgattttca ataaatgaac      840
tttttaaaga aa                                                              852

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&lt;210&gt; 545

&lt;211&gt; 414

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 545

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Leu Leu Asp Ala Ser Glu Lys Leu Lys Leu Thr Tyr Glu Glu Lys Cys
 1          5          10          15
Glu Ile Glu Glu Ser Gln Leu Lys Phe Leu Arg Asn Asp Leu Ala Glu
          20          25          30
Tyr Gln Arg Thr Cys Glu Asp Leu Lys Glu Gln Leu Lys His Lys Glu
          35          40          45
Phe Leu Leu Ala Ala Asn Thr Cys Asn Arg Val Gly Gly Leu Cys Leu
          50          55          60
Lys Cys Ala Gln His Glu Ala Val Leu Ser Gln Thr His Thr Asn Val
65          70          75          80
His Met Gln Thr Ile Glu Arg Leu Val Lys Glu Arg Asp Asp Leu Met
          85          90          95
Ser Ala Leu Val Ser Val Arg Ser Ser Leu Ala Asp Thr Gln Gln Arg
          100          105          110
Glu Ala Ser Ala Tyr Glu Gln Val Lys Gln Val Leu Gln Ile Ser Glu
          115          120          125
Glu Ala Asn Phe Glu Lys Thr Lys Ala Leu Ile Gln Cys Asp Gln Leu
          130          135          140
Arg Lys Glu Leu Glu Arg Gln Ala Glu Arg Leu Glu Lys Glu Leu Ala
145          150          155          160
Ser Gln Gln Glu Lys Arg Ala Ile Glu Lys Asp Met Met Lys Lys Glu
          165          170          175
Ile Thr Lys Glu Arg Glu Tyr Met Gly Ser Lys Met Leu Ile Leu Ser
          180          185          190
Gln Asn Ile Ala Gln Leu Glu Ala Gln Val Glu Lys Val Thr Lys Glu
          195          200          205
Lys Ile Ser Ala Ile Asn Gln Leu Glu Glu Ile Gln Ser Gln Leu Ala
          210          215          220
Ser Arg Glu Met Asp Val Thr Lys Val Cys Gly Glu Met Arg Tyr Gln
225          230          235          240
Leu Asn Lys Thr Asn Met Glu Lys Asp Glu Ala Glu Lys Glu His Arg
          245          250          255

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Glu Phe Arg Ala Lys Thr Asn Arg Asp Leu Glu Ile Lys Asp Gln Glu  
 260 265 270  
 Ile Glu Lys Leu Arg Ile Glu Leu Asp Glu Ser Lys Gln His Leu Glu  
 275 280 285  
 Gln Glu Gln Gln Lys Ala Ala Leu Ala Arg Glu Glu Cys Leu Arg Leu  
 290 295 300  
 Thr Glu Leu Leu Gly Glu Ser Glu His Gln Leu His Leu Thr Arg Ser  
 305 310 315 320  
 Glu Ile Ala Gln Leu Ser Gln Glu Lys Arg Tyr Thr Tyr Asp Lys Leu  
 325 330 335  
 Gly Lys Leu Gln Arg Arg Asn Glu Glu Leu Glu Glu Gln Cys Val Gln  
 340 345 350  
 His Gly Arg Val His Glu Thr Met Lys Gln Arg Leu Arg Gln Leu Asp  
 355 360 365  
 Lys His Ser Gln Ala Thr Ala Gln Gln Leu Val Gln Leu Leu Ser Lys  
 370 375 380  
 Gln Asn Gln Leu Leu Leu Glu Arg Gln Ser Leu Ser Glu Glu Val Asp  
 385 390 395 400  
 Arg Leu Arg Thr Gln Leu Pro Ser Met Pro Gln Ser Asp Cys  
 405 410

<210> 546  
 <211> 2885  
 <212> DNA  
 <213> Homo Sapiens

<400> 546

ggaattcctc	ttgtcgaagt	caaaggagcc	cacaccaggc	ggcctcaacc	attccctccc	60
acagcaccac	aaatgctggg	gagcccacca	tgcttctttg	gaccagagtt	ccctcccca	120
gagcggcccc	cctgggacgc	ctccctccta	caaactgcct	ttgcctgggc	cctacgacag	180
tcgagacgac	ttccccctcc	gcaaaacagc	ctctgaaccc	aacttgaaag	tgcgttcaag	240
gctaaaacag	aaggtggctg	agcggagaag	cagtcacctc	ctgcgtcgca	aggatgggac	300
tgctattagc	acctttaaga	agagagctgt	tgagatcaca	ggtgcggggc	ctggggcgct	360
gtccgtgtgt	aacagcgcac	ccggctccgg	ccccagctct	cccaacagct	cccacagcac	420
catcgctgag	aatggcttta	ctggctcagt	ccccaacatc	ccactgaga	tgctccctca	480
gcaccgagcc	ctccctctgg	acagctcccc	caaccagttc	agcctctaca	cgtctccttc	540
tctgcccac	atctccctag	ggctgcaggc	cacggctact	gtcaccaact	cacacctcac	600
tgctcccccg	aagctgtcga	cacagcagga	ggccgagagg	caggccctcc	agtccctgcy	660
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gggcgtggca	ctggaggggc	acgggagccc	ccacgggcat	gctccctgc	tgacgcatgt	780
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gcggcatcgg	ccctgagcc	gcactcagtc	ctcaccgctg	ccgcagagtc	cccaggccct	960
gcagcagctg	gtcatgcaac	aacagcacca	gcagttcctg	gagaagcaga	agcagcagca	1020
gctacagctg	ggcaagatcc	tcaccaagac	aggggagctg	cccaggcagc	ccaccaccca	1080
ccctgaggag	acagaggagg	agctgacgga	gcagcaggag	gtcttgctgg	gggaggaggc	1140
cctgaccatg	ccccgggagg	gtccacaga	gagtgagagc	acacaggaag	acctggagga	1200
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ggccactgtg	ccccaccaag	ccctggggcg	tacccaatcc	tccctgctg	ccctggggg	1440
catgaagaac	ccccagacc	aaccgcgtcaa	gcacctcttc	accacaagtg	tggtctacga	1500
cacgttcatg	ctaaagcacc	agtgcattgt	cggaacaca	cacgtgcacc	ctgagcatgc	1560
tggccggatc	cagagcatct	ggtcccggtc	gcaggagaca	ggcctgctta	gcaagtgcga	1620
gcggatccga	ggtcgcaaa	ccacgctaga	tgagatccag	acagtgcact	ctgaatacca	1680

```

caccctgtct tatgggacca gtccctcaa ccggcagaag ctagacagca agaagttgct 1740
cggtcccatc agccagaaga tgtatgtgt gctgccttgt gggggcatcg ggggtggacag 1800
tgacaccgtg tggaatgaga tgcactctc cagtgtgtgt cgcattggcag tgggtctgct 1860
gctggagctg gccttcaagg tggctgcagg agagctcaag aatggatttg ccatcatccg 1920
gccccagga caccacgccg aggaatccac agccatggga ttctgtctct tcaactctgt 1980
agccatcacc gcaaaactcc tacagcagaa gttgaacgtg ggcaagggtcc tcatcgtgga 2040
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ctacatctct ctgcatcgct atgacaacgg gaacttcttt ccaggctctg gggctcctga 2160
agaggttggt ggaggaccag gcgtggggta caatgtgaac gtggcatgga caggaggtgt 2220
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gcagctgatg accctggcag ggggccgggt ggtgctggcc ctggagggag gccatgactt 2460
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cccaggcccg cagaggagcc catggagcag gagcctgccc tgtgacgccc cggcccccat 2820
ccctttgggc ttaccattg tgattttgtt tattttttct attaaaaaca aaaagttaaa 2880
aattt 2885

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&lt;210&gt; 547

&lt;211&gt; 897

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 547

```

Glu Phe Leu Leu Ser Lys Ser Lys Glu Pro Thr Pro Gly Gly Leu Asn
 1           5           10          15
His Ser Leu Pro Gln His Pro Lys Cys Trp Gly Ala His His Ala Ser
 20          25          30
Leu Asp Gln Ser Ser Pro Pro Gln Ser Gly Pro Pro Gly Thr Pro Pro
 35          40          45
Ser Tyr Lys Leu Pro Leu Pro Gly Pro Tyr Asp Ser Arg Asp Asp Phe
 50          55          60
Pro Leu Arg Lys Thr Ala Ser Glu Pro Asn Leu Lys Val Arg Ser Arg
 65          70          75          80
Leu Lys Gln Lys Val Ala Glu Arg Arg Ser Ser Pro Leu Leu Arg Arg
 85          90          95
Lys Asp Gly Thr Val Ile Ser Thr Phe Lys Lys Arg Ala Val Glu Ile
100         105         110
Thr Gly Ala Gly Pro Gly Ala Ser Ser Val Cys Asn Ser Ala Pro Gly
115         120         125
Ser Gly Pro Ser Ser Pro Asn Ser Ser His Ser Thr Ile Ala Glu Asn
130         135         140
Gly Phe Thr Gly Ser Val Pro Asn Ile Pro Thr Glu Met Leu Pro Gln
145         150         155         160
His Arg Ala Leu Pro Leu Asp Ser Ser Pro Asn Gln Phe Ser Leu Tyr
165         170         175
Thr Ser Pro Ser Leu Pro Asn Ile Ser Leu Gly Leu Gln Ala Thr Val
180         185         190
Thr Val Thr Asn Ser His Leu Thr Ala Ser Pro Lys Leu Ser Thr Gln
195         200         205
Gln Glu Ala Glu Arg Gln Ala Leu Gln Ser Leu Arg Gln Gly Gly Thr

```

210	215	220
Leu Thr Gly Lys Phe Met Ser Thr Ser Ser Ile Pro Gly Cys Leu Leu		
225	230	235
Gly Val Ala Leu Glu Gly Asp Gly Ser Pro His Gly His Ala Ser Leu		
	245	250
Leu Gln His Val Leu Leu Leu Glu Gln Ala Arg Gln Gln Ser Thr Leu		
	260	265
Ile Ala Val Pro Leu His Gly Gln Ser Pro Leu Val Thr Gly Glu Arg		
	275	280
Val Ala Thr Ser Met Arg Thr Val Gly Lys Leu Pro Arg His Arg Pro		
	290	295
Leu Ser Arg Thr Gln Ser Ser Pro Leu Pro Gln Ser Pro Gln Ala Leu		
305	310	315
Gln Gln Leu Val Met Gln Gln Gln His Gln Gln Phe Leu Glu Lys Gln		
	325	330
Lys Gln Gln Gln Leu Gln Leu Gly Lys Ile Leu Thr Lys Thr Gly Glu		
	340	345
Leu Pro Arg Gln Pro Thr Thr His Pro Glu Glu Thr Glu Glu Leu		
	355	360
Thr Glu Gln Gln Glu Val Leu Leu Gly Glu Gly Ala Leu Thr Met Pro		
	370	375
Arg Glu Gly Ser Thr Glu Ser Glu Ser Thr Gln Glu Asp Leu Glu Glu		
385	390	395
Glu Asp Glu Glu Glu Asp Gly Glu Glu Glu Glu Asp Cys Ile Gln Val		
	405	410
Lys Asp Glu Glu Gly Glu Ser Gly Ala Glu Glu Gly Pro Asp Leu Glu		
	420	425
Glu Pro Gly Ala Gly Tyr Lys Lys Leu Phe Ser Asp Ala Gln Pro Leu		
	435	440
Gln Pro Leu Gln Val Tyr Gln Ala Pro Leu Ser Leu Ala Thr Val Pro		
	450	455
His Gln Ala Leu Gly Arg Thr Gln Ser Ser Pro Ala Ala Pro Gly Gly		
465	470	475
Met Lys Asn Pro Pro Asp Gln Pro Val Lys His Leu Phe Thr Thr Ser		
	485	490
Val Val Tyr Asp Thr Phe Met Leu Lys His Gln Cys Met Cys Gly Asn		
	500	505
Thr His Val His Pro Glu His Ala Gly Arg Ile Gln Ser Ile Trp Ser		
	515	520
Arg Leu Gln Glu Thr Gly Leu Leu Ser Lys Cys Glu Arg Ile Arg Gly		
	530	535
Arg Lys Ala Thr Leu Asp Glu Ile Gln Thr Val His Ser Glu Tyr His		
545	550	555
Thr Leu Leu Tyr Gly Thr Ser Pro Leu Asn Arg Gln Lys Leu Asp Ser		
	565	570
Lys Lys Leu Leu Gly Pro Ile Ser Gln Lys Met Tyr Ala Val Leu Pro		
	580	585
Cys Gly Gly Ile Gly Val Asp Ser Asp Thr Val Trp Asn Glu Met His		
	595	600
Ser Ser Ser Ala Val Arg Met Ala Val Gly Cys Leu Leu Glu Leu Ala		
	610	615
Phe Lys Val Ala Ala Gly Glu Leu Lys Asn Gly Phe Ala Ile Ile Arg		
625	630	635
Pro Pro Gly His His Ala Glu Glu Ser Thr Ala Met Gly Phe Cys Phe		
	645	650
		655

Phe Asn Ser Val Ala Ile Thr Ala Lys Leu Leu Gln Gln Lys Leu Asn  
 660 665 670  
 Val Gly Lys Val Leu Ile Val Asp Trp Asp Ile His His Gly Asn Gly  
 675 680 685  
 Thr Gln Gln Ala Phe Tyr Asn Asp Pro Ser Val Leu Tyr Ile Ser Leu  
 690 695 700  
 His Arg Tyr Asp Asn Gly Asn Phe Phe Pro Gly Ser Gly Ala Pro Glu  
 705 710 715 720  
 Glu Val Gly Gly Gly Pro Gly Val Gly Tyr Asn Val Asn Val Ala Trp  
 725 730 735  
 Thr Gly Gly Val Asp Pro Pro Ile Gly Asp Val Glu Tyr Leu Thr Ala  
 740 745 750  
 Phe Arg Thr Val Val Met Pro Ile Ala His Glu Phe Ser Pro Asp Val  
 755 760 765  
 Val Leu Val Ser Ala Gly Phe Asp Ala Val Glu Gly His Leu Ser Pro  
 770 775 780  
 Leu Gly Gly Tyr Ser Val Thr Ala Arg Cys Phe Gly His Leu Thr Arg  
 785 790 795 800  
 Gln Leu Met Thr Leu Ala Gly Gly Arg Val Val Leu Ala Leu Glu Gly  
 805 810 815  
 Gly His Asp Leu Thr Ala Ile Cys Asp Ala Ser Glu Ala Cys Val Ser  
 820 825 830  
 Ala Leu Leu Ser Val Lys Leu Gln Pro Leu Asp Glu Ala Val Leu Gln  
 835 840 845  
 Gln Lys Pro Asn Ile Asn Ala Val Ala Thr Leu Glu Lys Val Ile Glu  
 850 855 860  
 Ile Gln Ser Lys His Trp Ser Cys Val Gln Lys Phe Ala Ala Gly Leu  
 865 870 875 880  
 Gly Arg Ser Leu Arg Gly Ala Gln Ala Gly Glu Thr Glu Glu Ala Glu  
 885 890 895  
 Met

<210> 548  
 <211> 1298  
 <212> DNA  
 <213> Homo Sapiens

<400> 548  
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 agaactagcg gatttgccaa aagactacct cttgagttag agtgaagatg agggggacaa 120  
 tgaaggagag agaaagcatc naaagcttct ggaagcaatc agttcccttg atggaaagaa 180  
 taggcggaaa ttggctgana ggtctgaggc tagtctgaag gtgtcagagt tcaatgtcag 240  
 ttctgaagga tcaggagaaa agctggtcct tgcagatctg cttgagcctg ttaaaacttc 300  
 atcttctttg gccactgtga aaaagcaact gagtagagtc anatcaaaga anacagtggg 360  
 gttacctctg aacaaagaag agattgaacg gatccacaga gaatagcatt caataaaacg 420  
 cacaagtcct ctccaaatgg gacctgtcg tctgaagaa ccggcaggca gagcagctgg 480  
 tttttccctt ggagaaagag gagccagcca ttgctcccat tgaacatgtg ctcagtggct 540  
 ggaaggcaag aactcccctg gagcaggaaa ttttcaacct cctccataag aacaagcagc 600  
 cagtgcacaga ccctttactg acccctgtgg aaaaggcctc tctccgagcc atgagcctag 660  
 aagaggcaaa gatgcgacga gcagagcttc agagggtctg ggctctgcag tcctactatg 720  
 angccaaggg tcgaagagag aagaaaatcn aaagttaaaa gtatcacaaa gtcgtgaaga 780  
 aaggaaaggg caagaaagcc ctaaaagagt ttgagcagct gcggaaggtt aatccagctg 840  
 ccgcactaga agaacgaaga aaagaggaaa gaaggaggag gagaaagaag aagaacaagg 900  
 agaagaagaa agaagaaggg agaaggagaa gaaaagaagg agaagaggaa aaggaagaag 960

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gagaaagaaa aggagaagga aaaggaaaag aaggagaaga aagaagaact aagaagaagg 1020
agaggaagaa taagaaggaa agaagaaaga aaaaagtnaa agaagaagaa agaaggaaga 1080
aggaaagaag aggaagaact nagaagaaga aagaggagga aagaagaaag aagaataagg 1140
aacnagaaag aaggagaaga aagaataaga agaggaagaa gaaaaagaag aaaagaagaa 1200
ggaaagaagg agaaaaagga agaaaaaagg aagaagaaag tagaaagcgg aagaagaaa 1260
agaaagtata agaaggaaga agaagaaaga aggaaaaa 1298

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<210> 549  
 <211> 236  
 <212> PRT  
 <213> Homo Sapiens

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<400> 549
Ala Ala Glu Met Thr Ala Asn Arg Leu Ala Glu Ser Leu Leu Ala Leu
 1          5          10          15
Ser Gln Glu Glu Leu Ala Asp Leu Pro Lys Asp Tyr Leu Leu Ser Glu
          20          25          30
Ser Glu Asp Glu Gly Asp Asn Asp Gly Glu Arg Lys His Lys Leu Leu
          35          40          45
Glu Ala Ile Ser Ser Leu Asp Gly Lys Asn Arg Arg Lys Leu Ala Arg
          50          55          60
Ser Glu Ala Ser Leu Lys Val Ser Glu Phe Asn Val Ser Ser Glu Gly
          65          70          75          80
Ser Gly Glu Lys Leu Val Leu Ala Asp Leu Leu Glu Pro Val Lys Thr
          85          90          95
Ser Ser Ser Leu Ala Thr Val Lys Lys Gln Leu Ser Arg Val Ser Lys
          100          105          110
Thr Val Glu Leu Pro Leu Asn Lys Glu Glu Ile Glu Arg Ile His Arg
          115          120          125
Glu Ile Ala Phe Asn Lys Thr His Lys Ser Ser Pro Asn Gly Thr Leu
          130          135          140
Ser Ser Val Leu Lys Asn Arg Gln Ala Glu Gln Leu Val Phe Pro Leu
          145          150          155          160
Glu Lys Glu Glu Pro Ala Ile Ala Pro Ile Glu His Val Leu Ser Gly
          165          170          175
Trp Lys Ala Arg Thr Pro Leu Glu Gln Glu Ile Phe Asn Leu Leu His
          180          185          190
Lys Asn Lys Gln Pro Val Thr Asp Pro Leu Leu Thr Pro Val Glu Lys
          195          200          205
Ala Ser Leu Arg Ala Met Ser Leu Glu Glu Ala Lys Met Arg Arg Ala
          210          215          220
Glu Leu Gln Arg Ala Arg Ala Leu Gln Ser Tyr Tyr
          225          230          235

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<210> 550  
 <211> 2236  
 <212> DNA  
 <213> Homo Sapiens

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<400> 550
cctggcccgg tcgcggctgc ggctctttcc agctcctggc agccgggcac ccgaaggaac 60
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&lt;210&gt; 551

&lt;211&gt; 652

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 551

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      35             40             45
Val Ile Asn Glu Pro Ser Arg Leu Pro Leu Phe Asp Ala Ile Arg Pro
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Leu Ile Pro Leu Lys His Gln Val Glu Tyr Asp Gln Leu Thr Pro Arg
      65             70             75             80
Arg Ser Arg Lys Leu Lys Glu Val Arg Leu Asp Arg Leu His Pro Glu
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Phe Ile Ser His Leu Ile Lys Gly Gly Gln Ala Asp Ser Val Gly Leu

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Lys Pro Arg Thr Ser Leu Glu Arg Gly His Met Thr His Thr Arg Trp  
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Ala Leu Asn Gln Gly Gln Ile Arg Asn Ser Ser Gly His Phe Phe Glu  
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<212> DNA  
<213> Homo Sapiens

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2162

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 <213> Homo Sapiens

<400> 553

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 Arg Ser Arg Lys Leu Lys Glu Val Arg Leu Asp Arg Leu His Pro Glu  
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 Gln Val Gly Asp Glu Ile Val Arg Ile Asn Gly Tyr Ser Ile Ser Ser  
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 Cys Thr His Glu Glu Val Ile Asn Leu Ile Arg Thr Lys Lys Thr Val  
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 Ser Ile Lys Val Arg His Ile Gly Leu Ile Pro Val Lys Ser Ser Pro  
 165 170 175  
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 180 185 190  
 Gly Gly Val Arg Gly Ser Leu Gly Ser Pro Gly Asn Arg Glu Asn Lys  
 195 200 205  
 Glu Lys Lys Val Phe Ile Ser Leu Val Gly Ser Arg Gly Leu Gly Cys  
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 355 360 365  
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 35 40 45

Phe Leu Leu Ala Ala Asn Thr Cys Asn Arg Val Gly Gly Leu Cys Leu  
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Lys Cys Ala Gln His Glu Ala Val Leu Ser Gln Thr His Thr Asn Val  
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His Met Gln Thr Ile Glu Arg Leu Val Lys Glu Arg Asp Asp Leu Met  
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Gln Met Glu Ala Gln His Asp Lys Thr Glu Asn Glu Gln Tyr Leu Leu  
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His Ser Gln Ala Thr Ala Gln Gln Leu Val Gln Leu Leu Ser Lys Gln  
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485

490

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&lt;400&gt; 556

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<210> 557  
 <211> 328  
 <212> PRT  
 <213> Homo Sapiens

&lt;400&gt; 557

Met	Glu	Ser	Asn	Lys	Ile	Leu	Gln	Glu	Gln	Gln	Glu	Met	Glu	Arg	Gln
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Arg	Arg	Lys	Glu	Ile	Ala	Gln	Lys	Ala	Ala	Glu	Glu	Asn	Glu	Arg	Tyr
		20						25					30		
Arg	Lys	Glu	Met	Glu	Gln	Ile	Val	Glu	Glu	Glu	Glu	Lys	Phe	Lys	Lys
		35					40					45			
Gln	Trp	Glu	Glu	Asp	Trp	Gly	Ser	Lys	Glu	Gln	Leu	Leu	Leu	Pro	Lys
	50					55					60				
Thr	Ile	Thr	Ala	Glu	Val	His	Pro	Val	Pro	Leu	Arg	Lys	Pro	Lys	Tyr
65					70					75				80	
Asp	Gln	Gly	Val	Glu	Pro	Glu	Leu	Glu	Pro	Ala	Asp	Asp	Leu	Asp	Gly
			85						90					95	
Gly	Thr	Glu	Glu	Gln	Gly	Glu	Gln	Asp	Phe	Arg	Lys	Tyr	Glu	Glu	Gly
		100						105					110		
Phe	Asp	Pro	Tyr	Ser	Met	Phe	Thr	Pro	Glu	Gln	Ile	Met	Gly	Lys	Asp
		115					120					125			
Val	Arg	Leu	Leu	Arg	Ile	Lys	Lys	Glu	Gly	Ser	Leu	Asp	Leu	Ala	Leu
	130					135					140				

Glu Gly Gly Val Asp Ser Pro Ile Gly Lys Val Val Val Ser Ala Val  
 145 150 155 160  
 Tyr Glu Arg Gly Ala Ala Glu Arg His Gly Gly Ile Val Lys Gly Asp  
 165 170 175  
 Glu Ile Met Ala Ile Asn Gly Lys Ile Val Thr Asp Tyr Thr Leu Ala  
 180 185 190  
 Glu Ala Asp Ala Ala Leu Gln Lys Ala Trp Asn Gln Gly Gly Asp Trp  
 195 200 205  
 Ile Asp Leu Val Val Ala Val Cys Pro Pro Lys Glu Tyr Asp Asp Glu  
 210 215 220  
 Leu Thr Phe Leu Leu Lys Ser Lys Arg Gly Asn Gln Ile His Ala Leu  
 225 230 235 240  
 Gly Asn Ser Glu Leu Arg Pro His Leu Val Asn Thr Lys Pro Arg Thr  
 245 250 255  
 Ser Leu Glu Arg Gly His Met Thr His Thr Arg Trp His Pro Trp Asp  
 260 265 270  
 Leu Asn Leu Ser Pro Arg Asn Leu Lys Leu Pro Leu Ala Leu Asn Gln  
 275 280 285  
 Gly Gln Ile Arg Asn Ser Ser Gly His Phe Phe Glu Gly Gln Cys Gly  
 290 295 300  
 Gly Lys Gly Ala Ala Ser Arg Leu Gly Glu Asp Leu Lys Asp Pro Asp  
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 Ser His Ser Phe Pro Leu Ala Gln  
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<210> 558  
 <211> 2289  
 <212> DNA  
 <213> Homo Sapiens

<400> 558

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 ccacaggaga tgttgaagag gatgggtgtt tatcaagaca gcattcaaga caagatttcc 1440



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&lt;210&gt; 559

&lt;211&gt; 481

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 559

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Met Asp Arg Lys Val Ala Arg Glu Phe Arg His Lys Val Asp Phe Leu
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Ile Glu Asn Asp Ala Glu Lys Asp Tyr Leu Tyr Asp Val Leu Arg Met
20 25 30
Tyr His Gln Thr Met Asp Val Ala Val Leu Val Gly Asp Leu Lys Leu
35 40 45
Val Ile Asn Glu Pro Ser Arg Leu Pro Leu Phe Asp Ala Ile Arg Pro
50 55 60
Leu Ile Pro Leu Lys His Gln Val Glu Tyr Asp Gln Leu Thr Pro Arg
65 70 75 80
Arg Ser Arg Lys Leu Lys Glu Val Arg Leu Asp Arg Leu His Pro Glu
85 90 95
Gly Leu Gly Leu Ser Val Arg Gly Gly Leu Glu Phe Gly Cys Gly Leu
100 105 110
Phe Ile Ser His Leu Ile Lys Gly Gly Gln Ala Asp Ser Val Gly Leu
115 120 125
Gln Val Gly Asp Glu Ile Val Arg Ile Asn Gly Tyr Ser Ile Ser Ser
130 135 140
Cys Thr His Glu Glu Val Ile Asn Leu Ile Arg Thr Lys Lys Thr Val
145 150 155 160
Ser Ile Lys Val Arg His Ile Gly Leu Ile Pro Val Lys Ser Ser Pro
165 170 175
Asp Glu Pro Leu Thr Trp Gln Tyr Val Asp Gln Phe Val Ser Glu Ser
180 185 190
Gly Gly Val Arg Gly Ser Leu Gly Ser Pro Gly Asn Arg Glu Asn Lys
195 200 205
Glu Lys Lys Val Phe Ile Ser Leu Val Gly Ser Arg Gly Leu Gly Cys
210 215 220
Ser Ile Ser Ser Gly Pro Ile Gln Lys Pro Gly Ile Phe Ile Ser His
225 230 235 240
Val Lys Pro Gly Ser Leu Ser Ala Glu Val Gly Leu Glu Ile Gly Asp
245 250 255
Gln Ile Val Glu Val Asn Gly Val Asp Phe Ser Asn Leu Asp His Lys

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	260		265		270
Glu Ala Val Asn Val Leu Lys Asn Ser Arg Ser Leu Thr Ile Ser Ile					
	275		280		285
Val Ala Ala Ala Gly Arg Glu Leu Phe Met Thr Asp Arg Glu Arg Leu					
	290		295		300
Ala Glu Ala Arg Gln Arg Glu Leu Gln Arg Gln Glu Leu Leu Met Gln					
305		310		315	320
Lys Arg Leu Ala Met Glu Ser Asn Lys Ile Leu Gln Glu Gln Gln Glu					
	325		330		335
Met Glu Arg Gln Arg Arg Lys Glu Ile Ala Gln Lys Ala Ala Glu Glu					
	340		345		350
Asn Glu Arg Tyr Arg Lys Glu Met Glu Gln Ile Val Glu Glu Glu Glu					
	355		360		365
Lys Phe Lys Lys Gln Trp Glu Glu Asp Trp Gly Ser Lys Glu Gln Leu					
	370		375		380
Leu Leu Pro Lys Thr Ile Thr Ala Glu Val His Pro Val Pro Leu Arg					
385		390		395	400
Lys Pro Lys Tyr Asp Gln Gly Val Glu Pro Glu Leu Glu Pro Ala Asp					
	405		410		415
Asp Leu Asp Gly Gly Thr Glu Glu Gln Gly Glu Gln Pro Gln Glu Met					
	420		425		430
Leu Lys Arg Met Val Val Tyr Gln Asp Ser Ile Gln Asp Lys Ile Ser					
	435		440		445
Gly Asn Met Arg Lys Ala Leu Thr Pro Thr Leu Cys Ser Pro Gln Ser					
	450		455		460
Arg Ser Trp Gly Arg Met Ser Gly Ser Tyr Ala Ser Arg Arg Arg Asp					
465		470		475	480
Pro					

<210> 560

<211> 2409

<212> DNA

<213> Homo Sapiens

<400> 560

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ttaaaaaaa 2409

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&lt;210&gt; 561

&lt;211&gt; 521

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 561

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Met Asp Arg Lys Val Ala Arg Glu Phe Arg His Lys Val Asp Phe Leu
 1             5             10             15
Ile Glu Asn Asp Ala Glu Lys Asp Tyr Leu Tyr Asp Val Leu Arg Met
      20             25             30
Tyr His Gln Thr Met Asp Val Ala Val Leu Val Gly Asp Leu Lys Leu
      35             40             45
Val Ile Asn Glu Pro Ser Arg Leu Pro Leu Phe Asp Ala Ile Arg Pro
      50             55             60
Leu Ile Pro Leu Lys His Gln Val Glu Tyr Asp Gln Leu Thr Pro Arg
      65             70             75             80
Arg Ser Arg Lys Leu Lys Glu Val Arg Leu Asp Arg Leu His Pro Glu
      85             90             95
Gly Leu Gly Leu Ser Val Arg Gly Gly Leu Glu Phe Gly Cys Gly Leu
      100            105            110
Phe Ile Ser His Leu Ile Lys Gly Gly Gln Ala Asp Ser Val Gly Leu
      115            120            125
Gln Val Gly Asp Glu Ile Val Arg Ile Asn Gly Tyr Ser Ile Ser Ser
      130            135            140
Cys Thr His Glu Glu Val Ile Asn Leu Ile Arg Thr Lys Lys Thr Val
      145            150            155            160
Ser Ile Lys Val Arg His Ile Gly Leu Ile Pro Val Lys Ser Ser Pro
      165            170            175
Asp Glu Pro Leu Thr Trp Gln Tyr Val Asp Gln Phe Val Ser Glu Ser
      180            185            190
Gly Gly Val Arg Gly Ser Leu Gly Ser Pro Gly Asn Arg Glu Asn Lys
      195            200            205

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Glu Lys Lys Val Phe Ile Ser Leu Val Gly Ser Arg Gly Leu Gly Cys  
 210 215 220  
 Ser Ile Ser Ser Gly Pro Ile Gln Lys Pro Gly Ile Phe Ile Ser His  
 225 230 235 240  
 Val Lys Pro Gly Ser Leu Ser Ala Glu Val Gly Leu Glu Ile Gly Asp  
 245 250 255  
 Gln Ile Val Glu Val Asn Gly Val Asp Phe Ser Asn Leu Asp His Lys  
 260 265 270  
 Glu Ala Val Asn Val Leu Lys Asn Ser Arg Ser Leu Thr Ile Ser Ile  
 275 280 285  
 Val Ala Ala Ala Gly Arg Glu Leu Phe Met Thr Asp Arg Glu Arg Leu  
 290 295 300  
 Ala Glu Ala Arg Gln Arg Glu Leu Gln Arg Gln Glu Leu Leu Met Gln  
 305 310 315 320  
 Lys Arg Leu Ala Met Glu Ser Asn Lys Ile Leu Gln Glu Gln Gln Glu  
 325 330 335  
 Met Glu Arg Gln Arg Arg Lys Glu Ile Ala Gln Lys Ala Ala Glu Glu  
 340 345 350  
 Asn Glu Arg Tyr Arg Lys Glu Met Glu Gln Ile Val Glu Glu Glu Glu  
 355 360 365  
 Lys Phe Lys Lys Gln Trp Glu Glu Asp Trp Gly Ser Lys Glu Gln Leu  
 370 375 380  
 Leu Leu Pro Lys Thr Ile Thr Ala Glu Val His Pro Val Pro Leu Arg  
 385 390 395 400  
 Lys Pro Lys Tyr Asp Gln Gly Val Glu Pro Glu Leu Glu Pro Ala Asp  
 405 410 415  
 Asp Leu Asp Gly Gly Thr Glu Glu Gln Gly Glu Gln Thr Phe Cys Pro  
 420 425 430  
 Ser Pro Gln Pro Pro Arg Gly Pro Gly Val Ser Thr Ile Ser Lys Pro  
 435 440 445  
 Val Met Val His Gln Glu Pro Asn Phe Ile Tyr Arg Pro Ala Val Lys  
 450 455 460  
 Ser Glu Val Leu Pro Gln Glu Met Leu Lys Arg Met Val Val Tyr Gln  
 465 470 475 480  
 Asp Ser Ile Gln Asp Lys Ile Ser Gly Asn Met Arg Lys Ala Leu Thr  
 485 490 495  
 Pro Thr Leu Cys Ser Pro Gln Ser Arg Ser Trp Gly Arg Met Ser Gly  
 500 505 510  
 Ser Tyr Ala Ser Arg Arg Arg Asp Pro  
 515 520

&lt;210&gt; 562

&lt;211&gt; 1445

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 562

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gcatgaagct ccgtgtatac cctgagggtca ccaccgctcg atctaaatgt gcagttgtgt      660
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taaaactttt ttttctcct gttccaattg atagctttct tatttaataa attctgtagt     1440
tcacc                                             1445

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&lt;210&gt; 563

&lt;211&gt; 192

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 563

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Pro Ala Gly Ser Pro Ser Ala Asp Phe Ala Val His Gly Glu Ser Leu
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Gly Asp Arg His Leu Arg Thr Leu Gln Ile Ser Tyr Asp Ala Leu Lys
20          25          30
Asp Glu Asn Ser Lys Leu Arg Arg Lys Leu Asn Glu Val Gln Ser Phe
35          40          45
Ser Glu Ala Gln Thr Glu Met Val Arg Thr Leu Glu Arg Lys Leu Glu
50          55          60
Ala Lys Met Ile Lys Glu Glu Ser Asp Tyr His Asp Leu Glu Ser Val
65          70          75          80
Val Gln Gln Val Glu Gln Asn Leu Glu Leu Met Thr Lys Arg Ala Val
85          90          95
Lys Ala Glu Asn His Val Val Lys Leu Lys Gln Glu Ile Ser Leu Leu
100          105          110
Gln Ala Gln Val Ser Asn Phe Gln Arg Glu Asn Glu Ala Leu Arg Cys
115          120          125
Gly Gln Gly Ala Ser Leu Thr Val Val Lys Gln Asn Ala Asp Val Ala
130          135          140
Leu Gln Asn Leu Arg Val Val Met Asn Ser Ala Gln Ala Ser Ile Lys
145          150          155          160
Gln Leu Val Ser Gly Ala Glu Thr Leu Asn Leu Val Ala Glu Ile Leu
165          170          175
Lys Ser Ile Asp Arg Ile Ser Glu Val Lys Asp Glu Glu Glu Asp Ser
180          185          190

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&lt;210&gt; 564

&lt;211&gt; 1226

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 564

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ccaacttggc tatgaaggag gttattgacg cattcatctc tgagaatggc tgggtggagg      960
actactgagg ttccctgccc tacctggcgt cctgggtccag gggagccctg ggcagaagcc     1020
cccgccccct aaacatagtt tatgtttttg gccaccccg cagcttcccc caagttctgc     1080
tggtggactc tggactgttt cccctctcag catcgctttt gctggggcgt gattgtcccc     1140
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gtgtaataaa atccgtgagc acgaaa                                     1226

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<210> 565

<211> 303

<212> PRT

<213> Homo Sapiens

<400> 565

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Met Lys Gly Lys Glu Glu Lys Glu Gly Gly Ala Arg Leu Gly Ala Gly
 1          5          10          15
Gly Gly Ser Pro Glu Lys Ser Pro Ser Ala Gln Glu Leu Lys Glu Gln
 20          25          30
Gly Asn Arg Leu Phe Val Gly Arg Lys Tyr Pro Glu Ala Ala Ala Cys
 35          40          45
Tyr Gly Arg Ala Ile Thr Arg Asn Pro Leu Val Ala Val Tyr Tyr Thr
 50          55          60
Asn Arg Ala Leu Cys Tyr Leu Lys Met Gln Gln His Glu Gln Ala Leu
 65          70          75          80
Ala Asp Cys Arg Arg Ala Leu Glu Leu Asp Gly Gln Ser Val Lys Ala
 85          90          95
His Phe Phe Leu Gly Gln Cys Gln Leu Glu Met Glu Ser Tyr Asp Glu
 100         105         110
Ala Ile Ala Asn Leu Gln Arg Ala Tyr Ser Leu Ala Lys Glu Gln Arg
 115         120         125
Leu Asn Phe Gly Asp Asp Ile Pro Ser Ala Leu Arg Ile Ala Lys Lys
 130         135         140
Lys Arg Trp Asn Ser Ile Glu Glu Arg Arg Ile His Gln Glu Ser Glu
 145         150         155         160
Leu His Ser Tyr Leu Ser Arg Leu Ile Ala Ala Glu Arg Glu Arg Glu
 165         170         175
Leu Glu Glu Cys Gln Arg Asn His Glu Gly Asp Glu Asp Asp Ser His
 180         185         190
Val Arg Ala Gln Gln Ala Cys Ile Glu Ala Lys His Asp Lys Tyr Met
 195         200         205
Ala Asp Met Asp Glu Leu Phe Ser Gln Val Asp Glu Lys Arg Lys Lys

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210	215	220
Arg Asp Ile Pro Asp Tyr Leu Cys Gly Lys Ile Ser Phe Glu Leu Met		
225	230	235
Arg Glu Pro Cys Ile Thr Pro Ser Gly Ile Thr Tyr Asp Arg Lys Asp		240
	245	250
Ile Glu Glu His Leu Gln Arg Val Gly His Phe Asp Pro Val Thr Gly		255
	260	265
Ser Pro Leu Thr Gln Glu Gln Phe Ile Pro Asn Leu Ala Met Lys Glu		270
	275	280
Val Ile Asp Ala Phe Ile Ser Glu Asn Gly Trp Val Glu Asp Tyr		285
290	295	300

<210> 566  
 <211> 1857  
 <212> DNA  
 <213> Homo Sapiens

<400> 566

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tagtggccgg ccggccgctc tcatccccc taaggagcag agtcctttgt actgaccaag	180
atgagcaaca tctacatcca ggagcctccc acgaatggga aggtttttatt gaaaactaca	240
gctggagata ttgacataga gttgtggtcc aaagaagctc ctaaagcttg cagaaatttt	300
atcccaactt tgtttggaag cttattatga caataccatt tttcatagag ttgtgcctgg	360
tttcatagtc caaggcggag atcctactgg cacagggagt ggtggagagt ctatctatgg	420
agcgccattc aaagatgaat ttcattcacg gttgcgtttt aatcggagag gactgggtgc	480
catggcaaat gctggttctc atgataatgg caccactttt tcttcacac tgggtcgagc	540
agatgaactt aacaataagc ataccatctt tggaaagggt acaggggata cagtataata	600
catgttgcca ctgtcagaag tagacattga tgatgacgaa agaccacata atccacacaa	660
aataaaaaagc tgtgagggtt tgtttaatcc ttttgatgac atcattccaa gggaaattaa	720
aaggctgaaa aaagagaaac cagaggagga agtaaaagaa ttgaaaccca aaggcacaaa	780
aaattttagt ttactttcat ttggagagga agctgaggaa gaagaagagg aagtaaatac	840
agttagtcag agcatgaagg gcaaaagcaa aagtagtcat gacttgctta aggatgatcc	900
acatctcagt tctgttccag ttgtagaaag tgaaaaaggt gatgcaccag atttagttga	960
tgatggagaa gatgaaagtg cagagcatga tgaatatatt gatggtgatg aaaagaacct	1020
gatgagagaa agaattgcca aaaaattaaa aaaggacaca agtgccaatg ttaaatacagc	1080
tggagaagga gaagtggaga agaaatcagt cagccgcagt gaagagctca gaaaagaagc	1140
aagacaatta aaacgggaac tcttagcagc aaaacaaaaa aaagtagaaa atgcagcaaa	1200
acaagcagaa aaaagaagtg aagaggaaga agcccctcca gatggtgctg ttgccgaata	1260
cagaagagaa aagcaaaagt atgaagcttt gaggaagcaa cagtcaaaga agggaaacttc	1320
ccgggaagat cagacccttg cactgctgaa ccagtttaaa tctaaactca ctcaagcaat	1380
tgctgaaaca cctgaaaatg acattcctga aacagaagta gaagatgatg aaggatggat	1440
gtcacatgta cttcagtttg aggataaaag cagaaaagtg aaagatgcaa gcatgcaaga	1500
ctcagatata ttgaaatct atgatcctcg gaatccagtg aataaaagaa ggagggaaga	1560
aagcaaaaag ctgatgagag agaaaaaaga aagaagataa aatgagaata atgataacca	1620
gaacttgctg gaaatgtgcc tacaatggcc ttgtaacagc cattgttccc aacagcatca	1680
cttaggggtg tgaaaagaag tatttttgaa cctgttgtct ggttttgaaa aacaattatc	1740
ttgttttgca aattgtggaa tgatgtaagc aaatgctttt ggttactggt acatgtgttt	1800
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<210> 567  
 <211> 372  
 <212> PRT  
 <213> Homo Sapiens

<400> 567

Met	Ala	Asn	Ala	Gly	Ser	His	Asp	Asn	Gly	Thr	His	Phe	Phe	Phe	Thr
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Leu	Gly	Arg	Ala	Asp	Glu	Leu	Asn	Asn	Lys	His	Thr	Ile	Phe	Gly	Lys
			20					25					30		
Val	Thr	Gly	Asp	Thr	Val	Tyr	Asn	Met	Leu	Arg	Leu	Ser	Glu	Val	Asp
		35					40					45			
Ile	Asp	Asp	Asp	Glu	Arg	Pro	His	Asn	Pro	His	Lys	Ile	Lys	Ser	Cys
	50					55					60				
Glu	Val	Leu	Phe	Asn	Pro	Phe	Asp	Asp	Ile	Ile	Pro	Arg	Glu	Ile	Lys
65					70					75					80
Arg	Leu	Lys	Lys	Glu	Lys	Pro	Glu	Glu	Glu	Val	Lys	Lys	Leu	Lys	Pro
				85					90					95	
Lys	Gly	Thr	Lys	Asn	Phe	Ser	Leu	Leu	Ser	Phe	Gly	Glu	Glu	Ala	Glu
			100					105					110		
Glu	Glu	Glu	Glu	Glu	Val	Asn	Arg	Val	Ser	Gln	Ser	Met	Lys	Gly	Lys
			115				120					125			
Ser	Lys	Ser	Ser	His	Asp	Leu	Leu	Lys	Asp	Asp	Pro	His	Leu	Ser	Ser
	130					135					140				
Val	Pro	Val	Val	Glu	Ser	Glu	Lys	Gly	Asp	Ala	Pro	Asp	Leu	Val	Asp
145					150					155					160
Asp	Gly	Glu	Asp	Glu	Ser	Ala	Glu	His	Asp	Glu	Tyr	Ile	Asp	Gly	Asp
			165						170					175	
Glu	Lys	Asn	Leu	Met	Arg	Glu	Arg	Ile	Ala	Lys	Lys	Leu	Lys	Lys	Asp
			180					185					190		
Thr	Ser	Ala	Asn	Val	Lys	Ser	Ala	Gly	Glu	Gly	Glu	Val	Glu	Lys	Lys
		195					200					205			
Ser	Val	Ser	Arg	Ser	Glu	Glu	Leu	Arg	Lys	Glu	Ala	Arg	Gln	Leu	Lys
	210					215					220				
Arg	Glu	Leu	Leu	Ala	Ala	Lys	Gln	Lys	Lys	Val	Glu	Asn	Ala	Ala	Lys
225					230					235					240
Gln	Ala	Glu	Lys	Arg	Ser	Glu	Glu	Glu	Glu	Ala	Pro	Pro	Asp	Gly	Ala
				245					250					255	
Val	Ala	Glu	Tyr	Arg	Arg	Glu	Lys	Gln	Lys	Tyr	Glu	Ala	Leu	Arg	Lys
		260						265					270		
Gln	Gln	Ser	Lys	Lys	Gly	Thr	Ser	Arg	Glu	Asp	Gln	Thr	Leu	Ala	Leu
		275					280					285			
Leu	Asn	Gln	Phe	Lys	Ser	Lys	Leu	Thr	Gln	Ala	Ile	Ala	Glu	Thr	Pro
	290					295					300				
Glu	Asn	Asp	Ile	Pro	Glu	Thr	Glu	Val	Glu	Asp	Asp	Glu	Gly	Trp	Met
305					310					315					320
Ser	His	Val	Leu	Gln	Phe	Glu	Asp	Lys	Ser	Arg	Lys	Val	Lys	Asp	Ala
			325						330					335	
Ser	Met	Gln	Asp	Ser	Asp	Thr	Phe	Glu	Ile	Tyr	Asp	Pro	Arg	Asn	Pro
			340					345					350		
Val	Asn	Lys	Arg	Arg	Arg	Glu	Glu	Ser	Lys	Lys	Leu	Met	Arg	Glu	Lys
		355					360					365			
Lys	Glu	Arg	Arg												
	370														

&lt;210&gt; 568

&lt;211&gt; 1537

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens



<400> 568

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caccaaccag atccgcctaa ccaatgtggc cgtggtacgg atgaagcgtg ccgggaagcg 180
cttcgaaatc gcctgctaca aaaacaaggt cgctgggtgac cggagcggcg tggaaaaaga 240
cctcgatgaa gttctgcaga cccactcagt gtttgtaaag gtttctaaag gtcagggttg 300
caaaaaggaa gatctcatca gtgcgttttg aacagatgac caaactgaaa tctgtaagca 360
gattttgact aaaggagaag ttcaagtatc agataaagaa agacacacac aactggagca 420
gatgttttag gacattgcaa ctattgtggc agacaaatgt gtgaatcctg aaacaaagag 480
accatacacc gtgattccta ttgagagagc catgaaggac atccactatt cggtgaaaac 540
caacaagagt acaaaacagc aggcctttgga agtgataaag cagttaaaag agaaaatgaa 600
gatagaacgt gctcacatga agcttcgggt catccttcca gtcaatgaag gcaagaactg 660
aaagaaaagc tcaagccact gatcaaggtc atagaaagtg aagattatgg ccaacagtta 720
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gaaactaaag gcaaaagggtc ttggaagta ctcaatctga aagatgtaga agaaggagat 840
gagaaatttg aatgacaccc atcaatctct tcacctctaa aacactaaag tgtttccggt 900
tccgacggca ctgtttcatg tctgtggtct gccaaatact tgcttaaaact atttgacatt 960
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aagatgcaaa gtccagagtg gcattttgct actctgtctc atgccttgat agctttccaa 1140
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acctttcatt gaacatgctg ccataaatta ggttattttt ggttaaaaaa taaaagtcaa 1440
ttatttttaa tttttaaggt ttataatata tattaatata ggtaaaattg tatgtaatca 1500
ataaaaccaa ttttatgttt attaaactta aaaaaaa 1537

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<210> 569

<211> 210

<212> PRT

<213> Homo Sapiens

<400> 569

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Ala Ala Arg Arg Ser Val Val Thr Ala Arg Arg Trp Trp Pro Ser Gly
1          5          10          15
Trp Thr Ala Arg Val Ser Pro Gly Ser Pro Ala Ser Gly Ser Leu Asn
20          25          30
Ser Arg Asp Val Asp Leu His Pro His Gln Pro Asp Pro Asn Gln
35          40          45
Cys Gly Arg Gly Thr Asp Glu Ala Cys Arg Glu Ala Leu Arg Asn Arg
50          55          60
Leu Leu Gln Lys Gln Val Val Gly Trp Arg Ser Gly Val Glu Lys Asp
65          70          75          80
Leu Asp Glu Val Leu Gln Thr His Ser Val Phe Val Asn Val Ser Lys
85          90          95
Gly Gln Val Ala Lys Lys Glu Asp Leu Ile Ser Ala Phe Gly Thr Asp
100          105          110
Asp Gln Thr Glu Ile Cys Lys Gln Ile Leu Thr Lys Gly Glu Val Gln
115          120          125
Val Ser Asp Lys Glu Arg His Thr Gln Leu Glu Gln Met Phe Arg Asp
130          135          140
Ile Ala Thr Ile Val Ala Asp Lys Cys Val Asn Pro Glu Thr Lys Arg
145          150          155          160
Pro Tyr Thr Val Ile Leu Ile Glu Arg Ala Met Lys Asp Ile His Tyr

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165 170 175  
 Ser Val Lys Thr Asn Lys Ser Thr Lys Gln Gln Ala Leu Glu Val Ile  
 180 185 190  
 Lys Gln Leu Lys Glu Lys Met Lys Ile Glu Arg Ala His Met Lys Leu  
 195 200 205  
 Arg Phe  
 210

<210> 570  
 <211> 1211  
 <212> DNA  
 <213> Homo Sapiens

<400> 570  
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 gtttaatcct tttgatgaca tcattccaag ggaaatttaa aggctgaaaa aagagaaacc 180  
 agaggaggaa gtaaagaaat tgaaacccaa aggcacaaaa aatttttagtt tactttcatt 240  
 tggagaggaa gctgaggaag aagaggagga agtaaatacga gttagtcaga gcatgaaggg 300  
 caaaagcaaa agtagtcatg acttgcttaa ggatgatcca catctcagtt ctgttccagt 360  
 tgtagaaagt gaaaaaggtg atgcagcaga tttagttgat gatggagaag atgaaagtgc 420  
 agagcatgat gaatatattg atggtgatga aaagaacctg atgagagaaa gaattgccaa 480  
 aaaattaaaa aaggacacaa gtgcgaatgt taaatcagct ggagaaggag aagtggagaa 540  
 gaaatcagtc agccgcagtg aagagctcag aaaagaagca agacaattaa aacgggaact 600  
 cttagcagca gaacaaaaaa aagtagaaaa tgcagcaaaa caagcagaaa aaagaagtga 660  
 agaggaagaa gccctccag atggtgctgt tgccgaatac agaagagaaa agcaaaaagta 720  
 tgaagctctg aggaagcaac agtcaaagaa gggaacttcc cggaagatc agacccttgc 780  
 actgctgaac cagtttaaat ctaaaactcac tcaagcaatt gctgaaacgc ctgaaaatga 840  
 cattcctgaa acagaagtag aagatgatga aggatggatg tcacatgtac ttcagtttga 900  
 ggataaaaagc agaaaagtga aagatgcaag catgcaagac tcagatacat ttgaaatcta 960  
 tgatcctcgg aatccagtga ataaaagaag gagggaagaa agcaaaaagc tgatgagaga 1020  
 gaaaaaagaa agaagataaa atgagaataa tgataaccag aacttgctgg aaatgtgcct 1080  
 acaatggcct tgtaacagcc attgttccca acagcatcac ttagggtgt gaaaagaagt 1140  
 atttttgaac ctgttgctctg gttttgaaaa acaattatct tgttttgcaa attgtggaat 1200  
 gatgtaagca a 1211

<210> 571  
 <211> 354  
 <212> PRT  
 <213> Homo Sapiens

<400> 571  
 Pro Ser Leu Glu Arg Leu Gln Gly Tyr Thr Val Tyr Asn Met Leu Arg  
 1 5 10 15  
 Leu Ser Glu Val Asp Ile Asp Asp Asp Glu Arg Pro His Asn Pro His  
 20 25 30  
 Lys Ile Lys Ser Cys Glu Val Leu Phe Asn Pro Phe Asp Asp Ile Ile  
 35 40 45  
 Pro Arg Glu Ile Lys Arg Leu Lys Lys Glu Lys Pro Glu Glu Glu Val  
 50 55 60  
 Lys Lys Leu Lys Pro Lys Gly Thr Lys Asn Phe Ser Leu Leu Ser Phe  
 65 70 75 80  
 Gly Glu Glu Ala Glu Glu Glu Glu Glu Glu Val Asn Arg Val Ser Gln  
 85 90 95  
 Ser Met Lys Gly Lys Ser Lys Ser Ser His Asp Leu Leu Lys Asp Asp



&lt;213&gt; Homo Sapiens

&lt;400&gt; 573

Leu Arg Gln Lys Ile Leu Val Pro Thr Phe Cys Ser Ile Pro Lys Gly  
 1 5 10 15  
 Leu Thr Phe Ile Pro Phe Ser Asn Arg Ala Pro Lys Lys Leu Pro Phe  
 20 25 30  
 Ile His Pro Tyr Leu Gly Pro Gln Val Gly Pro Pro Lys Ala Pro Leu  
 35 40 45  
 Pro Gln Ser Gly Trp Leu Asn Lys Ser Ser Gln Phe Pro Gly Ser Gln  
 50 55 60  
 Gly Pro Leu Lys Lys Ile Val Gln Gly Val Pro Gln Val Pro Arg Val  
 65 70 75 80  
 Glu Thr Glu Ala Pro Ala Ser Leu Gln Ala Val Ala Ala Pro Gly Ala  
 85 90 95  
 Glu Pro Val Ala Glu Pro Gly Ala Val Gly Ala Val Gly Ala Cys  
 100 105 110  
 Gly Leu Thr Gly Glu His Arg Arg Glu Arg Gly Gly Arg Glu Gln Arg  
 115 120 125  
 Gly Ala Asp Gly Arg Arg Gly Arg Arg Gly Gln Arg Arg Arg His Leu  
 130 135 140  
 His Leu Ser Pro His Arg Phe Arg Asp Gly Asp Arg Thr Gly Arg Ala  
 145 150 155 160  
 Leu Gly Arg Arg Pro Leu Leu His Phe Leu Pro Ser Pro Thr Arg His  
 165 170 175  
 Leu Val Ala Pro Gly Gln Ala Gln Ala Gly Ala Ala Ala Trp Leu Asp  
 180 185 190  
 Arg Ala Gln  
 195

&lt;210&gt; 574

&lt;211&gt; 742

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 574

cccaccaggg cccctcgat gcagagacag aggtcggtgc tgaccgctgc acgtcgactg 60  
 cctaccagga gcagaggccc caggtggagc aagttggcaa agtcgctcct ctctccccag 120  
 ggctgccggc aatggggggg cctggccccg gcccctgtga ggaccccgcg ggtgctgggg 180  
 gagcaggtgc agggggctcc gagccccctg tgactgtcac cgtgcagtgc gccttcacag 240  
 tggccctgag ggcaggaaga ggagccgacc tgtccagcct gcgggcactg ctgggccaag 300  
 ccttccttca ccaggcccag cttgggcaat tcagttacct agccccaggt gaggacgggc 360  
 actgggtccc catccccgag gaggagtcgc tgcagagggc ctggcaggac gcagctgcct 420  
 gccccagggg gctgcagctg cagtgcaggg gagccggggg tcggccgggc ctttaccagg 480  
 tgggtggccca gcacagatac tccgcccagg ggccagagga cctgggcttc cgacaggggg 540  
 acacgggtgga cgtcctgtgt gaagtggacc aggcattggt ggagggccac tgtgacggcc 600  
 gcacggcat cttccccaag tgcttcgtgg tccccgccc ccctcgatg tcaggagccc 660  
 ccggccgcct gcccgatcc cagcagggag atcagcccta atgatgctgt gtccatgatg 720  
 cttttaataa aaacaacccc ca 742

&lt;210&gt; 575

&lt;211&gt; 232

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 575

His Gln Gly Pro Leu Asp Ala Glu Thr Glu Val Gly Ala Asp Arg Cys  
 1 5 10 15  
 Thr Ser Thr Ala Tyr Gln Glu Gln Arg Pro Gln Val Glu Gln Val Gly  
 20 25 30  
 Lys Val Ala Pro Leu Ser Pro Gly Leu Pro Ala Met Gly Gly Pro Gly  
 35 40 45  
 Pro Gly Pro Cys Glu Asp Pro Ala Gly Ala Gly Gly Ala Gly Ala Gly  
 50 55 60  
 Gly Ser Glu Pro Leu Val Thr Val Thr Val Gln Cys Ala Phe Thr Val  
 65 70 75 80  
 Ala Leu Arg Ala Gly Arg Gly Ala Asp Leu Ser Ser Leu Arg Ala Leu  
 85 90 95  
 Leu Gly Gln Ala Phe Leu His Gln Ala Gln Leu Gly Gln Phe Ser Tyr  
 100 105 110  
 Leu Ala Pro Gly Glu Asp Gly His Trp Val Pro Ile Pro Glu Glu Glu  
 115 120 125  
 Ser Leu Gln Arg Ala Trp Gln Asp Ala Ala Ala Cys Pro Arg Gly Leu  
 130 135 140  
 Gln Leu Gln Cys Arg Gly Ala Gly Gly Arg Pro Val Leu Tyr Gln Val  
 145 150 155 160  
 Val Ala Gln His Arg Tyr Ser Ala Gln Gly Pro Glu Asp Leu Gly Phe  
 165 170 175  
 Arg Gln Gly Asp Thr Val Asp Val Leu Cys Glu Val Asp Gln Ala Trp  
 180 185 190  
 Leu Glu Gly His Cys Asp Gly Arg Ile Gly Ile Phe Pro Lys Cys Phe  
 195 200 205  
 Val Val Pro Ala Gly Pro Arg Met Ser Gly Ala Pro Gly Arg Leu Pro  
 210 215 220  
 Arg Ser Gln Gln Gly Asp Gln Pro  
 225 230

&lt;210&gt; 576

&lt;211&gt; 1087

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 576

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 caaaataagg gtaaaccaga cttgaataca acattgccaa ttagacaaac agcatcaatt 120  
 ttcaaacaac cggtaaccaa agtcacaaat catcctagta ataaagtga atcagaccca 180  
 caacgaatga atgaacagcc acgtcagctt ttctgggaga agaggctaca aggacttagt 240  
 gcatcagatg taacagaaca aattataaaa accatggaac taccxaaagg tcttcaagga 300  
 gttggtccag gtagcaatga tgagaccctt ttatctgctg ttgccagtgc tttgcacaca 360  
 agctctgcgc caatcacagg gcaagtctcc gctgctgtgg aaaagaaccc tgctgtttgg 420  
 cttaacacat ctcaaccct ctgcaaagct ttattgtca cagatgaaga catcaggaaa 480  
 caggaagagc gagtacagca agtacgcaag aaattggaag aagcactgat ggcagacatc 540  
 ttgtcgcgag ctgctgatac agaagagatg gatattgaaa tggacagtgg agatgaagcc 600  
 taagaatatg atcaggtaac ttctgaccga ctttcccaa gagaaaattc ctagaaattg 660  
 aacaaaaatg ttccactgg cttttgcctg taagaaaaaa aatgtaccg agcacataga 720  
 gctttttaat agcactaacc aatgcctttt tagatgtatt tttgatgtat atatctatta 780  
 ttcaaaaaat catgtttatt ttgagtcta ggacttaaaa ttagtctttt gtaatatcaa 840  
 gcaggaccct aagatgaagc tgagcttttg atgccagtg caatttactg gaaatgtagc 900  
 acttacgtaa aacatttgtt tccccacag ttttaataag aacagatcag gaattctaaa 960  
 taaatttccc agttaaaagat tattgtgact tcaactgtata taaacatatt tttatacttt 1020

attgaaaggg gacacctgta cattcttcca tcgtcactgt aaagacaaat aaatgattat 1080  
 attcaca 1087

<210> 577  
 <211> 200  
 <212> PRT  
 <213> Homo Sapiens

<400> 577  
 Lys Met Met Pro Ser Lys Leu Gln Lys Asn Lys Gln Arg Leu Arg Asn  
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 Asp Pro Leu Asn Gln Asn Lys Gly Lys Pro Asp Leu Asn Thr Thr Leu  
 20 25 30  
 Pro Ile Arg Gln Thr Ala Ser Ile Phe Lys Gln Pro Val Thr Lys Val  
 35 40 45  
 Thr Asn His Pro Ser Asn Lys Val Lys Ser Asp Pro Gln Arg Met Asn  
 50 55 60  
 Glu Gln Pro Arg Gln Leu Phe Trp Glu Lys Arg Leu Gln Gly Leu Ser  
 65 70 75 80  
 Ala Ser Asp Val Thr Glu Gln Ile Ile Lys Thr Met Glu Leu Pro Lys  
 85 90 95  
 Gly Leu Gln Gly Val Gly Pro Gly Ser Asn Asp Glu Thr Leu Leu Ser  
 100 105 110  
 Ala Val Ala Ser Ala Leu His Thr Ser Ser Ala Pro Ile Thr Gly Gln  
 115 120 125  
 Val Ser Ala Ala Val Glu Lys Asn Pro Ala Val Trp Leu Asn Thr Ser  
 130 135 140  
 Gln Pro Leu Cys Lys Ala Phe Ile Val Thr Asp Glu Asp Ile Arg Lys  
 145 150 155 160  
 Gln Glu Glu Arg Val Gln Gln Val Arg Lys Lys Leu Glu Glu Ala Leu  
 165 170 175  
 Met Ala Asp Ile Leu Ser Arg Ala Ala Asp Thr Glu Glu Met Asp Ile  
 180 185 190  
 Glu Met Asp Ser Gly Asp Glu Ala  
 195 200

<210> 578  
 <211> 2569  
 <212> DNA  
 <213> Homo Sapiens

<400> 578  
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 tgtttctcat ataaatgacc ttccagactt ttatgttcaa ctaatagaag atgaagctga 180  
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&lt;210&gt; 579

&lt;211&gt; 752

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 579

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      20              25              30
Pro Gly Phe Lys Thr Thr Val Tyr Val Ser His Ile Asn Asp Leu Ser
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Asp Phe Tyr Val Gln Leu Ile Glu Asp Glu Ala Glu Ile Ser His Leu
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Ser Glu Arg Leu Asn Ser Val Lys Thr Arg Pro Glu Tyr Tyr Val Gly
      65              70              75              80
Pro Pro Leu Gln Arg Gly Asp Met Ile Cys Ala Val Phe Pro Glu Asp
      85              90              95
Asn Leu Trp Tyr Arg Ala Val Ile Lys Glu Gln Gln Pro Asn Asp Leu
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Leu Ser Val Gln Phe Ile Asp Tyr Gly Asn Val Ser Val Val His Thr
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Asn Lys Ile Gly Arg Leu Asp Leu Val Asn Ala Ile Leu Pro Gly Leu
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 Ala Asp Glu His Gly Ile Ile Ala Asp Asp Met Ile Ser Arg Tyr Ala  
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 Val Ile Asp Gly Pro Glu Tyr Phe Trp Cys Gln Phe Ala Asp Thr Glu  
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Thr Ala Gln Leu Pro Leu Asp Asp Lys Met Asp Pro Leu Ser Leu Gly		
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Val Ser Gln Lys Ala Gln Glu Ser Met Cys Thr Glu Asp Met Arg Lys		
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Ser Ser Cys Val Glu Ser Phe Asp Asp Gln Arg Arg Met Ser Leu His		
675	680	685
Leu His Gly Ala Asp Cys Asp Pro Lys Thr Gln Asn Glu Met Asn Ile		
690	695	700
Cys Glu Glu Glu Phe Val Glu Tyr Lys Asn Arg Asp Ala Ile Ser Ala		
705	710	715
Leu Met Pro Phe Ser Leu Arg Lys Lys Ala Val Met Glu Ala Ser Thr		
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<211> 2077

<212> DNA

<213> Homo Sapiens

<400> 580

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<211> 312
<212> PRT
<213> Homo Sapiens

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Lys Glu Arg Arg Glu Met Lys Lys Lys Lys Leu Pro Ser Asp Ser Gly
50 55 60
Asp Leu Glu Ala Leu Glu Gly Lys Asp Lys Glu Lys Glu Ser Thr Val
65 70 75 80
His Ile Glu Thr His Gln Asn Thr Ser Lys Asn Val Ala Ala Val Gln
85 90 95
Pro Met Lys Arg Gly Gln Lys Ser Lys Met Lys Lys Met Lys Glu Lys
100 105 110
Tyr Lys Asp Gln Asp Glu Glu Asp Arg Glu Leu Ile Met Lys Leu Leu
115 120 125
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130 135 140
Gly Lys Thr Lys Asp Glu Pro Val Lys Lys Gln Pro Gln Lys Pro Arg
145 150 155 160
Gly Gly Gln Arg Val Ser Asp Asn Ile Lys Lys Glu Thr Pro Phe Leu
165 170 175
Glu Val Ile Thr His Glu Leu Gln Asp Phe Ala Val Asp Asp Pro His
180 185 190
Asp Asp Lys Glu Glu Gln Asp Leu Asp Gln Gln Gly Asn Glu Glu Asn
195 200 205
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210 215 220
Phe Ala Ile Pro Ile Cys Ala Pro Tyr Thr Thr Met Thr Asn Tyr Lys
225 230 235 240
Tyr Lys Val Lys Leu Thr Pro Gly Val Gln Lys Lys Gly Lys Ala Ala
245 250 255
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260 265 270
Glu Lys Asp Leu Phe Arg Ser Val Lys Asp Thr Asp Leu Ser Arg Asn
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<210> 582  
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<212> DNA  
<213> Homo Sapiens

<400> 582

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<211> 872  
<212> PRT  
<213> Homo Sapiens

<400> 583  
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Thr Pro Ser Val Ile Ser Phe Gly Ser Lys Asn Arg Thr Ile Gly Val  
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Ala Ala Lys Asn Gln Gln Ile Thr His Ala Asn Asn Thr Val Ser Asn  
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Glu Glu Leu Cys Ala Glu Leu Leu Gln Lys Ile Glu Val Pro Leu Tyr

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 Thr Lys Ile Lys Glu Leu Asn Asn Thr Cys Glu Pro Val Val Thr Gln  
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 820 825 830  
 Pro Asn Ile Asp Lys Lys Glu Glu Asp Leu Glu Asp Lys Asn Asn Phe  
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 <213> Homo Sapiens

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&lt;210&gt; 585

&lt;211&gt; 687

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 585

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Cys Met Glu Cys Gly Ser Ser His Asp Thr Leu Gln Gln Leu Thr Ala
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His Met Met Val Thr Gly His Phe Leu Lys Val Thr Thr Ser Ala Ser
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Lys Lys Gly Lys Gln Leu Val Leu Asp Pro Val Val Glu Glu Lys Ile
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Gln Ser Ile Pro Leu Pro Pro Thr Thr His Thr Arg Leu Pro Ala Ser
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Glu Lys Lys Glu Pro Glu Lys Glu Lys Pro Pro Val Ala Gly Asp Ala
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Glu Lys Ile Lys Glu Glu Ser Glu Asp Ser Leu Glu Lys Phe Glu Pro
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Ser Leu Thr Pro Pro Pro His Lys Ser Asn Val Ser Ala Met Glu Glu

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<213> Homo Sapiens

<400> 586

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<400> 587

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<210> 590  
 <211> 478  
 <212> DNA  
 <213> Homo Sapiens

<400> 590						
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ttttgttaac	ttttngccac	actcaantca	gtttaagtcc	tagcaaaaan	acggtagtta	180
ggataccact	gtggctgtaa	atgatntgac	actgggtgaa	tttgtgctgg	cgtttgtgta	240
acttccctcg	ctgtttgtgt	ttgattcgtn	agggggcacc	tggtctgaat	tggtctgaag	300
gattgtctct	gctgcactgc	aatgtggccg	cggccctgnt	tcttatntgt	tgtaaaangtn	360
aggntgggtg	aataaatgat	tccatcatnt	cggancgaag	ttgctgggaa	ctggganngg	420
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<210> 591  
 <211> 707  
 <212> DNA  
 <213> Homo Sapiens

<400> 591						
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ttttgttaac	tttttgccac	actcaantca	gtttaantcc	tancaaaaag	acggtagtta	180
ggataccact	gtggctgtaa	atgatgtgac	actgggtgaa	tttgtgctgg	cgtttgtgta	240
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gattgtctct	gctgcactgc	aatgtggccg	cggccctggt	tctggtgtgt	aggtaaaggt	360
aaggctgggtg	gaataaatga	ttccatcatt	tcggaccaaa	gttactggaa	cctggactgg	420
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actctctcca	cacctgtaca	tagtttcngc	ttctacatcc	ccaaaccaca	ctcgtaaatt	540
tggaantgaaa	ttctgtctctg	taagttcaag	catttctacg	tccccaccg	ccatttcaac	600
tgaaaggctc	tctaccacan	ggnacaggaa	atgactgggg	caaggacagg	gcccattccc	660
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<210> 592  
 <211> 541  
 <212> DNA  
 <213> Homo Sapiens

<400> 592  
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 gcnggtgnaa taantaatcc caccattncg naccaaattt actgnaacct gaacnggttg 300  
 ccgnaccan cnccancctn cncgaaatgc aaaantttct ggnacaacnc aaacntacn 360  
 cncnccaccc ctntnctat ttncagctnc tacntcccca aaccacacnc ntaaatngn 420  
 attaaaatcc tntcctgtaa ttccaagcat ggctacttcc ccaccgccat tcaactnaag 480  
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 t 541

<210> 593  
 <211> 605  
 <212> DNA  
 <213> Homo Sapiens

<400> 593  
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 ttttggttaac tttttgccac actcaantca gtttaantcc tagcaaaaaa acggtagtta 180  
 ggataccact gtggctgtaa atgatgnac actgggtgaa tttgtgctgg cgtttgtgn 240  
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 aaggctggtg gaataaatga ttccntcatt tccgancaaa gttactggaa cctggantgg 420  
 ttgncggacc atctccaacc ttctcggaat gcanaaatgt ctgggacaan acnnaacata 480  
 ctctctcnc acctggttca tantttcagc ttctacatcc cccaaaccac actcntaaat 540  
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 gaaag 605

<210> 594  
 <211> 666  
 <212> DNA  
 <213> Homo Sapiens

<400> 594  
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 acttattctt catgcaaaaag ttgcacagaa gtcatatgga aatgaaaaaa ggtttttttg 180  
 cccacctcct tgtgtatata ttatgggcag tggatggaag aaaaaaaaag aacaaatgga 240  
 acgcgatggg tgttctgaac aagagtctca accgtgtgca tttattggga taggaaatag 300  
 tgaccaagaa atgcagcagc taaacttggg aggaaagaac tattgcacag ccaaaacatt 360  
 gtatatatct gactcagaca agcgaaagca cttcatgttg tctgtaaaga tgttctatgg 420  
 caacagtgat gacattgggtg tgttctcan caagcggata aaagtcatt ccaaaccctc 480  
 caaaaagaac agtcattgaa aaatgctgac ttatgcattg cctcaggaaac aaagggtggc 540  
 ctgtttaatc gactacgac ccagacagtt ngtagcagat acttgcattg anaaggaggt 600  
 aattttccat gccagttccc accagtgggg agcctttttt attcncctt gggatgatga 660  
 tgaatc 666

<210> 595

<211> 600  
 <212> DNA  
 <213> Homo Sapiens

<400> 595  
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 tgtgtttgat tcgttagggg gcacctggct tgaattggct cgaaggattg ctctgctgc 180  
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 aatgattcca tcatttcgga ccaaagttac tggaaacctg actggttgcc ggacctatct 300  
 ccaaccttct cggaatgcag aaatgtctgg gacgacacag ancatactct ctccacacct 360  
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 aggcacagga atgactgggg caaggacagg gccattcccc tncataaaat gtntaatttg 540  
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<210> 596  
 <211> 835  
 <212> DNA  
 <213> Homo Sapiens

<400> 596  
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 ttttgtaac tttttgccac actcaantca gtttaagtc tagcaaaaan acggtagtta 180  
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 aaggctggtg gaataaatga ttccatcatt tcggaccaaa gttactggaa cctggactgg 420  
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 atgtatactc tgccttatct gtgctaata ttgtccagga aacgccanca ttttaccacc 720  
 tctttattgg ttcttttggg antggaatgg cctgaaattg aaatattctt ccttgaaaaa 780  
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<210> 597  
 <211> 443  
 <212> DNA  
 <213> Homo Sapiens

<400> 597  
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 tggatgctcg atttctctg cctctctctt tgccgagctt tccgcnacgg ccgctccgag 180  
 gacttccnnc ggaccgcga cagcgcanag gctattattc atggactatc cagtctaaca 240  
 gcttgccagt gagaacgata tacatatgtc agtttttgac aagaattgca gcaggaaaaa 300  
 ccttgatgc ncagtttgaa aatgatgaac gaattacacc cttggaatcn gcctgatga 360  
 tttgggggtc aattgaaaag gaacatgaen aacttctntga agaaatacag aatttaatta 420  
 aaattcangc tatngctgtt tgt 443

<210> 598  
 <211> 491  
 <212> DNA

<213> Homo Sapiens

<400> 598

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tggtgcaact	tagataanaa	aagattcttg	tgagacctca	ataaggatac	tgtacctctt	120
gaggattcag	ttaccgcaga	ctgtttgtca	ctaacacttt	ttcttgtatc	caaattagct	180
tcagttttcca	tttcaacatc	attaccacta	ggtttatctt	gagaagttat	tgttcttgtc	240
cttttgcttt	ctactacttt	tgccgctgcc	ttcattagaa	aggttgatga	tttttcactt	300
agcacataat	tcacataact	cttaattttc	tccatcatgt	ggttgtagct	gaagtgttga	360
aaaaaggaat	gaaatgtatc	tttctgagan	attatcataa	gcaatttgct	tttgaaaggc	420
atatgagaat	ttggatcacc	aaatattctt	tcaaagactt	cttctgcttc	tttaaagttg	480
ccattttcca	t					491

<210> 599

<211> 802

<212> DNA

<213> Homo Sapiens

<400> 599

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gaggattcag	ttaccgcaga	ctgtttgtca	ctaacacttt	ttcttgtatc	caaattagct	180
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agcacataat	tcacataact	cttaattttc	tccatcatgt	ggttgtagct	gaagtgttga	360
aaaaaggaat	gaaatgtatc	tttctgagag	attatcataa	gcaatttgct	tttgaaaggc	420
atatgagaat	ttggatcacc	aaatattctt	tcaaagactt	cttctgcttc	tttaaagttg	480
ccattttcca	tacaaacagc	tatagcctga	attttaatta	aattctgtat	ttcttcatga	540
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aataacctct	ggcgctgttg	cggttcttgc	ggaaattccn	cggaaaccggc	cgtcncggaa	780
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<210> 600

<211> 523

<212> DNA

<213> Homo Sapiens

<400> 600

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aaatactaaa	gttgaatggt	gtaaaaaac	nccgtggtgc	agcggcagcg	gcagcgtctg	120
gccaggaggg	gtggaggggc	ccagggatgg	ccacccccac	agggagtcag	ggagggcctg	180
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gggctttcct	gtcacaaana	ttaaaaaccc	ccnaaatgca	tttgaacaac	atnatacacn	360
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cctgggtcca	tcccaggggc	ccagcctccg	atnactcctc	anaaacacng	ccttnntgct	480
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<210> 601

<211> 530

<212> DNA

<213> Homo Sapiens

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 ccaaaangct tnaaggggcc cagggatngc cnccecnca gggattcngg gagggcctgg 180  
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 ggcttttctt tnncaaaaat tnaaaacccc cnaaatgcct ttnaactnact ttntnccan 360  
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<210> 602  
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 <213> Homo Sapiens

<400> 602  
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 ggancgctg cggntncgn tgtgccnctt ggtgcncgga anancanggc tacngnttct 180  
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 acgtgnaggg c 311

<210> 603  
 <211> 289  
 <212> DNA  
 <213> Homo Sapiens

<400> 603  
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 tttcgccctc tccccccgc tgetctcna ctccntgac cnetctcatc tctctcncct 240  
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<210> 604  
 <211> 356  
 <212> DNA  
 <213> Homo Sapiens

<400> 604  
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 gcgctgggga ccgntgntc naggtcnacn gcgtcaacnt ggagggcgat accacnctc 300  
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<210> 605  
 <211> 290  
 <212> DNA  
 <213> Homo Sapiens

<400> 605

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nnantcgact	nccaccaact	gtnnntcttc	cttcttttcc	cnangtcctt	anntaccncc	180
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<210> 606  
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<210> 607  
 <211> 687  
 <212> DNA  
 <213> Homo Sapiens

<400> 607						
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<210> 608  
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 <212> DNA  
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<400> 608						
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<210> 609

<211> 843

<212> DNA

<213> Homo Sapiens

<400> 609

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<211> 707

<212> DNA

<213> Homo Sapiens

<400> 610

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 tcatctantc gtctgctctt tcccactgcc agttgcctgc agccttgtag catcttttaa 540  
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 gnggacggcn anntnttnat agngggagtg gtncctttcaa ccagctaata ntgaagaaat 480  
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<400> 614

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<210> 621  
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<211> 753

<212> DNA

<213> Homo Sapiens

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<212> DNA

<213> Homo Sapiens

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<213> Homo Sapiens

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atgactttgt tagctatttc aaaggcggtc tgaaatacaa ggctggaggc gtggcatctg 420  
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cttcacattg gaccttgga cggaaattta tcanttggtg tggttcctcn tgcaacaaat 600  
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ggtctgaact aattgtc 677

<210> 630  
<211> 665  
<212> DNA  
<213> Homo Sapiens

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cttcattagc atctttgcca atccaaataa atatctgttc ccaagcatct agtaacatga 600  
catcatcttc agctaaatca tctgggtga actctccctg gaatctcttc aataacaaat 660  
ctccc 665

<210> 631  
<211> 698  
<212> DNA  
<213> Homo Sapiens

<400> 631  
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caaacctcaa taacatgag cgaattcnta caggagagaa accttattcc tgttctcagt 600  
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698

<210> 632  
<211> 466  
<212> DNA  
<213> Homo Sapiens

<400> 632

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ttgccttcca	agtaagcana	ctccagattc	atcttcaaag	tggtgggaaa	ngggatctgt	360
gacctgtnc	ttatcatata	acttcaaaaa	ggaaagctcc	ttantccaaa	aagcctanat	420
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<210> 633  
<211> 734  
<212> DNA  
<213> Homo Sapiens

<400> 633

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gattgtcaga	nacgtttcag	taaattatct	ctactttaaa	attatatctg	aatccccctt	420
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<210> 634  
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<212> DNA  
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<400> 634

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aagttgacta	tggtgaaacg	taataaccag	acaatctttg	aacaaacaat	aatgatctg	360
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tctaatacaa	gtacttccat	tgtaaacaga	atacatccaa	gtactgccag	cacggtagtg	660
accagcagc	agttcctccc	tggattgggc	ccaggtgata	actgctgtnt	ctgctccgcc	720

agaattctaa tttgattccc naagtcttaa tccctgttna tancatcccc cctacaatgc 780  
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<210> 635  
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 <212> DNA  
 <213> Homo Sapiens

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 tacctaattc tgatctctc tgtctttctg caaacctc tctgacctgc tcatanccca 660  
 tatgtgattt gttaacaaat tcatcaaggt ctgtctcatt aaaaaacttg tgcttcaggt 720  
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<210> 636  
 <211> 704  
 <212> DNA  
 <213> Homo Sapiens

<400> 636  
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 ggtcttgggt gttttgtatt caatcactgt ctgccccag gctccggtgt gactcgtgca 420  
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 cacgctgttc ttgcantgg angtgatgtt ctgggagcct cgggtggacat caggcgagc 600  
 aagggtcacct ggatgccaca tcngcanggt cggaaccctg gccgccatac cccaactggg 660  
 aatccatcng tcatgctctc cccgaaacaa aacatcctct tggt 704

<210> 637  
 <211> 693  
 <212> DNA  
 <213> Homo Sapiens

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 agccaccttc aaatgaatct tcaaattgga aaatactgct tcaccacctg ttggggataa 180  
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 cctctaaatc cccactgttg ctgttgctga tattgtncct tcgacatggc tactttttatt 360

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<210> 638

<211> 619

<212> DNA

<213> Homo Sapiens

<400> 638

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<210> 639

<211> 694

<212> DNA

<213> Homo Sapiens

<400> 639

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ngccagggan	aggcgagga	gcctttgcag	ccacgcgcgc	gccttccctg	tcttgtgtgc	180
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<210> 640

<211> 728

<212> DNA

<213> Homo Sapiens

<400> 640

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 <212> DNA  
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<400> 641						
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 <212> DNA  
 <213> Homo Sapiens

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<211> 749

<212> DNA

<213> Homo Sapiens

<400> 644

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canatttccc	tatgagaaac	aaaactggcc	acctacagca	aaatatcaaa	atgggtgaagt	540
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atcatgtcta	ttccttcaca	aatctaaacc	ttgaggtgat	atgaaggaaa	ccancntcaa	660
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<210> 645

<211> 751

<212> DNA

<213> Homo Sapiens

<400> 645

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<210> 646

<211> 760

<212> DNA

<213> Homo Sapiens

<400> 646

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<210> 647

<211> 1041

<212> DNA

<213> Homo Sapiens

<400> 647

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<210> 648

<211> 810

<212> DNA

<213> Homo Sapiens

<400> 648

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gtctatacat	aaacttcant	catttttgct	tgtgcaaaaat	catcccaatc	ttcccaaaac	360
tgaatgggca	gtcctgtggc	tttcttcctt	ttccatattc	ccaacaaggc	tacntgaant	420

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catcatgctt	attccttcac	aaatctaaac	cttgagggtga	tatgaaggaa	accancatca	660
agaaaagaaa	accaattcan	aaatgaanaa	aactggcagg	tntacaatac	accccananc	720
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&lt;210&gt; 649

&lt;211&gt; 656

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 649

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ccttctnccc	tctnccncc	nattatatac	aacatttctc	ccttcaaaac	tattattncc	600
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&lt;210&gt; 650

&lt;211&gt; 645

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 650

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&lt;210&gt; 651

&lt;211&gt; 780

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 651

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&lt;210&gt; 652

&lt;211&gt; 518

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 652

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&lt;210&gt; 653

&lt;211&gt; 490

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 653

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gcnaatcccc						490

&lt;210&gt; 654

&lt;211&gt; 359

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 654

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&lt;210&gt; 655



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 <212> DNA  
 <213> Homo Sapiens

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<210> 656  
 <211> 634  
 <212> DNA  
 <213> Homo Sapiens

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<210> 657  
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 <212> DNA  
 <213> Homo Sapiens

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 aggcagtgt catcaagata ctgctgaaaa gaatgcatct tcccagaga aagccaagg 180  
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<212> DNA  
<213> Homo Sapiens

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<210> 659  
<211> 726  
<212> DNA  
<213> Homo Sapiens

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<210> 660  
<211> 824  
<212> DNA  
<213> Homo Sapiens

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ctgatttcnt	ctctttcttg	gggaaccaag	ggcccttgaa	aaaanaaacg	gtgtttggaa	780
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<210> 661

<211> 399

<212> DNA

<213> Homo Sapiens

<400> 661

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cctntctnag	gattnaacaa	cctttttttt	cgggttaaaa	tttttaaaaa	aattngggaa	360
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<211> 826

<212> DNA

<213> Homo Sapiens

<400> 662

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<210> 663

<211> 770

<212> DNA

<213> Homo Sapiens

<400> 663

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 <212> DNA  
 <213> Homo Sapiens

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<210> 665  
 <211> 1024  
 <212> DNA  
 <213> Homo Sapiens

<400> 665						
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<210> 666  
 <211> 734  
 <212> DNA

<213> Homo Sapiens

<400> 666

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<210> 667

<211> 592

<212> DNA

<213> Homo Sapiens

<400> 667

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<210> 668

<211> 373

<212> DNA

<213> Homo Sapiens

<400> 668

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<210> 669

<211> 661

<212> DNA

<213> Homo Sapiens

<400> 669

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&lt;210&gt; 670

&lt;211&gt; 401

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 670

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&lt;210&gt; 671

&lt;211&gt; 1347

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 671

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<213> Homo Sapiens

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<211> 1016

<212> DNA

<213> Homo Sapiens

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<211> 1135

<212> DNA

<213> Homo Sapiens

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<212> DNA

<213> Homo Sapiens

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<212> DNA

<213> Homo Sapiens

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<212> DNA

<213> Homo Sapiens

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<212> DNA

<213> Homo Sapiens

<400> 678

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&lt;210&gt; 679

&lt;211&gt; 1367

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 679

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&lt;210&gt; 680

&lt;211&gt; 2545

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 680

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&lt;210&gt; 681

&lt;211&gt; 1745

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 681

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<210> 683  
 <211> 3127  
 <212> DNA  
 <213> Homo Sapiens

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<210> 684  
 <211> 803  
 <212> PRT  
 <213> Homo Sapiens

<400> 684

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			20					25				30			
Lys	Ala	Thr	Ile	Pro	Glu	Val	Lys	Asn	Ser	Glu	Asn	Ser	Ser	Ser	Arg
			35				40				45				
Gln	Val	Ser	Ala	Asn	Asn	Gln	Phe	Ser	Ile	Thr	Lys	Asn	Arg	Asp	Gly
	50					55				60					
Arg	Glu	Asn	Arg	Arg	Arg	Asn	Ser	Lys	Ile	Gly	Asp	Asp	Asn	Glu	Asn
65					70					75				80	
Leu	Thr	Phe	Lys	Leu	Glu	Val	Asn	Glu	Leu	Ser	Gly	Lys	Leu	Asp	Asn
			85					90					95		
Thr	Asn	Glu	Tyr	Asn	Ser	Asn	Asp	Gly	Lys	Lys	Leu	Pro	Gln	Gly	Glu
			100					105				110			
Ser	Arg	Ser	Tyr	Glu	Val	Met	Gly	Ser	Met	Glu	Glu	Thr	Leu	Cys	Asn
		115					120					125			
Ile	Asp	Asp	Arg	Asp	Gly	Asn	Arg	Asn	Val	His	Leu	Glu	Phe	Thr	Glu
	130					135				140					
Arg	Glu	Ser	Arg	Lys	Asp	Gly	Glu	Asp	Glu	Phe	Val	Lys	Glu	Met	Arg
145				150					155					160	
Glu	Glu	Arg	Lys	Phe	Gln	Lys	Leu	Lys	Asn	Lys	Glu	Glu	Val	Leu	Lys
				165					170					175	
Ala	Ser	Arg	Glu	Glu	Lys	Val	Leu	Met	Asp	Glu	Gly	Ala	Val	Leu	Thr
			180					185				190			
Leu	Ala	Ala	Asp	Leu	Ser	Ser	Ala	Thr	Leu	Asp	Ile	Ser	Lys	Gln	Trp
		195					200					205			
Ser	Asn	Val	Phe	Asn	Ile	Leu	Arg	Glu	Asn	Asp	Phe	Glu	Pro	Lys	Phe
	210					215					220				
Leu	Cys	Glu	Val	Lys	Leu	Ala	Phe	Lys	Cys	Asp	Gly	Glu	Ile	Lys	Thr
225				230						235				240	
Phe	Ser	Asp	Leu	Gln	Ser	Leu	Arg	Lys	Phe	Ala	Ser	Gln	Lys	Ser	Ser
				245					250					255	
Met	Xaa	Xaa	Leu	Leu	Xaa	Asp	Val	Leu	Pro	Gln	Lys	Glu	Glu	Ile	Asn
			260					265					270		
Gln	Gly	Gly	Arg	Lys	Tyr	Gly	Ile	Gln	Glu	Lys	Arg	Asp	Lys	Thr	Leu
		275				280						285			
Ile	Asp	Ser	Xaa	His	Arg	Ala	Gly	Glu	Ile	Thr	Ser	Asp	Gly	Leu	Ser
	290					295					300				
Phe	Leu	Phe	Leu	Lys	Glu	Val	Lys	Val	Ala	Lys	Pro	Glu	Glu	Met	Lys
305				310						315				320	
Asn	Leu	Glu	Thr	Gln	Glu	Glu	Glu	Phe	Ser	Glu	Leu	Glu	Glu	Leu	Asp
				325				330						335	
Glu	Glu	Ala	Ser	Gly	Met	Glu	Asp	Asp	Glu	Asp	Thr	Ser	Gly	Leu	Glu
		340						345				350			
Glu	Glu	Glu	Glu	Glu	Glu	Ala	Ser	Gly	Leu	Glu	Glu	Asp	Xaa	Ser	Ser
		355				360						365			
Xaa	Leu	Glu	Glu	Glu	Glu	Glu	Gln	Thr	Ser	Glu	Gln	Asp	Ser	Thr	Phe
	370					375					380				
Xaa	Gly	His	Thr	Leu	Val	Asp	Ala	Lys	His	Glu	Val	Glu	Ile	Thr	Ser

385 390 395 400  
 Xaa Gly Met Glu Thr Thr Phe Ile Asp Ser Val Glu Asp Ser Glu Ser  
 405 410 415  
 Glu Glu Glu Glu Glu Gly Lys Ser Ser Glu Thr Gly Lys Val Lys Thr  
 420 425 430  
 Thr Ser Leu Thr Glu Lys Lys Ala Ser Arg Arg Gln Lys Glu Ile Pro  
 435 440 445  
 Phe Ser Tyr Leu Val Gly Asp Ser Gly Lys Lys Lys Leu Val Lys His  
 450 455 460  
 Gln Val Val His Lys Thr Gln Glu Glu Glu Glu Thr Ala Val Pro Thr  
 465 470 475 480  
 Ser Gln Gly Thr Gly Thr Thr Cys Leu Thr Leu Cys Leu Ala Ser Pro  
 485 490 495  
 Ser Lys Ser Leu Glu Met Ser His Asp Glu His Lys Lys His Ser His  
 500 505 510  
 Thr Asn Leu Ser Ile Ser Thr Gly Val Thr Lys Leu Lys Lys Thr Glu  
 515 520 525  
 Glu Lys Lys His Arg Thr Leu His Thr Glu Glu Leu Thr Ser Lys Glu  
 530 535 540  
 Ala Asp Leu Thr Glu Glu Thr Glu Glu Asn Leu Arg Ser Ser Val Ile  
 545 550 555 560  
 Asn Ser Ile Arg Glu Ile Lys Glu Glu Ile Gly Asn Leu Lys Ser Ser  
 565 570 575  
 His Ser Gly Val Leu Glu Ile Glu Asn Ser Val Asp Asp Leu Ser Ser  
 580 585 590  
 Arg Met Asp Ile Leu Glu Glu Arg Ile Asp Ser Leu Glu Asp Gln Ile  
 595 600 605  
 Glu Glu Phe Ser Lys Asp Thr Met Gln Met Thr Lys Gln Ile Ile Ser  
 610 615 620  
 Lys Glu Gly Pro Arg Asp Ile Glu Glu Arg Ser Arg Ser Cys Asn Ile  
 625 630 635 640  
 Arg Leu Ile Gly Ile Pro Glu Lys Glu Ser Tyr Glu Asn Arg Ala Glu  
 645 650 655  
 Asp Ile Ile Lys Glu Ile Ile Asp Glu Asn Phe Ala Glu Leu Lys Lys  
 660 665 670  
 Gly Ser Ser Leu Glu Ile Val Ser Ala Cys Arg Val Pro Ser Lys Ile  
 675 680 685  
 Asp Glu Lys Arg Leu Thr Pro Arg His Ile Leu Val Lys Phe Trp Asn  
 690 695 700  
 Ser Ser Asp Lys Glu Lys Ile Ile Arg Pro Ser Arg Glu Arg Arg Glu  
 705 710 715 720  
 Ile Thr Tyr Gln Gly Thr Arg Ile Arg Leu Thr Ala Asp Leu Ser Leu  
 725 730 735  
 Asp Thr Leu Asp Ala Arg Ser Lys Trp Ser Asn Val Phe Lys Val Leu  
 740 745 750  
 Leu Glu Lys Gly Phe Asn Pro Arg Thr Leu Tyr Pro Ala Lys Met Ala  
 755 760 765  
 Phe Asp Phe Arg Gly Lys Thr Lys Val Phe Leu Ser Ile Glu Glu Phe  
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 Arg Asp Tyr Val Leu His Met Pro Thr Leu Arg Glu Leu Leu Gly Asn  
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 Asn Ile Pro

&lt;210&gt; 685



<211> 947  
 <212> PRT  
 <213> Homo Sapiens

<400> 685

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			20					25					30		
Gln	Tyr	Leu	Gln	Lys	Val	Val	Leu	Lys	Asp	Leu	Trp	Lys	His	Ser	Phe
		35				40						45			
Ser	Trp	Pro	Phe	Gln	Arg	Pro	Val	Asp	Ala	Val	Lys	Leu	Lys	Leu	Pro
	50					55				60					
Asp	Tyr	Tyr	Thr	Ile	Ile	Lys	Asn	Pro	Met	Asp	Leu	Asn	Thr	Ile	Lys
65				70						75				80	
Lys	Arg	Leu	Glu	Asn	Lys	Tyr	Tyr	Ala	Lys	Ala	Ser	Glu	Cys	Ile	Glu
				85					90					95	
Asp	Phe	Asn	Thr	Met	Phe	Ser	Asn	Cys	Tyr	Leu	Tyr	Asn	Lys	Pro	Gly
			100					105					110		
Asp	Asp	Ile	Val	Leu	Met	Ala	Gln	Ala	Leu	Glu	Lys	Leu	Phe	Met	Gln
		115					120					125			
Lys	Leu	Ser	Gln	Met	Pro	Gln	Glu	Glu	Gln	Val	Val	Gly	Val	Lys	Glu
	130					135					140				
Arg	Ile	Lys	Lys	Gly	Thr	Gln	Gln	Asn	Ile	Ala	Val	Ser	Ser	Ala	Lys
145				150						155				160	
Glu	Lys	Ser	Ser	Pro	Ser	Ala	Thr	Glu	Lys	Val	Phe	Lys	Gln	Gln	Glu
				165					170					175	
Ile	Pro	Ser	Val	Phe	Pro	Lys	Thr	Ser	Ile	Ser	Pro	Leu	Asn	Val	Val
			180					185					190		
Gln	Gly	Ala	Ser	Val	Asn	Ser	Ser	Ser	Gln	Thr	Ala	Ala	Gln	Val	Thr
	195					200						205			
Lys	Gly	Val	Lys	Arg	Lys	Ala	Asp	Thr	Thr	Thr	Pro	Ala	Thr	Ser	Ala
	210					215					220				
Val	Lys	Ala	Ser	Ser	Glu	Phe	Ser	Pro	Thr	Phe	Thr	Glu	Lys	Ser	Val
225				230						235				240	
Ala	Leu	Pro	Pro	Ile	Lys	Glu	Asn	Met	Pro	Lys	Asn	Val	Leu	Pro	Asp
				245				250					255		
Ser	Gln	Gln	Gln	Tyr	Asn	Val	Val	Glu	Thr	Val	Lys	Val	Thr	Glu	Gln
		260						265					270		
Leu	Arg	His	Cys	Ser	Glu	Ile	Leu	Lys	Glu	Met	Leu	Ala	Lys	Lys	His
	275						280					285			
Phe	Ser	Tyr	Ala	Trp	Pro	Phe	Tyr	Asn	Pro	Val	Asp	Val	Asn	Ala	Leu
	290					295					300				
Gly	Leu	His	Asn	Tyr	Tyr	Asp	Val	Val	Lys	Asn	Pro	Met	Asp	Leu	Gly
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Thr	Ile	Lys	Glu	Lys	Met	Asp	Asn	Gln	Glu	Tyr	Lys	Asp	Ala	Tyr	Ser
			325					330					335		
Phe	Ala	Ala	Asp	Val	Arg	Leu	Met	Phe	Met	Asn	Cys	Tyr	Lys	Tyr	Asn
		340						345				350			
Pro	Pro	Asp	His	Glu	Val	Val	Thr	Met	Ala	Arg	Met	Leu	Gln	Asp	Val
		355					360					365			
Phe	Glu	Thr	His	Phe	Ser	Lys	Ile	Pro	Ile	Glu	Pro	Val	Glu	Ser	Met
	370					375					380				
Pro	Leu	Cys	Tyr	Ile	Lys	Thr	Asp	Ile	Thr	Glu	Thr	Thr	Gly	Arg	Glu
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Asn Thr Asn Glu Ala Ser Ser Glu Gly Asn Ser Ser Asp Asp Ser Glu																			
				405					410							415			
Asp Glu Arg Val Lys Arg Leu Ala Lys Leu Gln Glu Gln Leu Lys Ala																			
				420					425							430			
Val His Gln Gln Leu Gln Val Leu Ser Gln Val Pro Phe Arg Lys Leu																			
				435					440							445			
Asn Lys Lys Lys Glu Lys Ser Lys Lys Glu Lys Lys Lys Glu Lys Val																			
				450					455							460			
Asn Asn Ser Asn Glu Asn Pro Arg Lys Met Cys Glu Gln Met Arg Leu																			
				465					470							475			480
Lys Glu Lys Ser Lys Arg Asn Gln Pro Lys Lys Arg Lys Gln Gln Phe																			
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Ile Gly Leu Lys Ser Glu Asp Glu Asp Asn Ala Lys Pro Met Asn Tyr																			
				500					505							510			
Asp Glu Lys Arg Gln Leu Ser Leu Asn Ile Asn Lys Leu Pro Gly Asp																			
				515					520							525			
Lys Leu Gly Arg Val Val His Ile Ile Gln Ser Arg Glu Pro Ser Leu																			
				530					535							540			
Ser Asn Ser Asn Pro Asp Glu Ile Glu Ile Asp Phe Glu Thr Leu Lys																			
				545					550							555			560
Ala Ser Thr Leu Arg Glu Leu Glu Lys Tyr Val Ser Ala Cys Leu Arg																			
				565												570			575
Lys Arg Pro Leu Lys Pro Pro Ala Lys Lys Ile Met Met Ser Lys Glu																			
				580					585							590			
Glu Leu His Ser Gln Lys Lys Gln Glu Leu Glu Lys Arg Leu Leu Asp																			
				595					600							605			
Val Asn Asn Gln Leu Asn Ser Arg Lys Arg Gln Thr Lys Ser Asp Lys																			
				610					615							620			
Thr Gln Pro Ser Lys Ala Val Glu Asn Val Ser Arg Leu Ser Glu Ser																			
				625					630							635			640
Ser Ser Ser Ser Ser Ser Ser Ser Glu Ser Glu Ser Ser Ser Ser Asp																			
				645												650			655
Leu Ser Ser Ser Asp Ser Ser Asp Ser Glu Ser Glu Met Phe Pro Lys																			
				660					665							670			
Phe Thr Glu Val Lys Pro Asn Asp Ser Pro Ser Lys Glu His Val Lys																			
				675					680							685			
Lys Met Lys Asn Glu Cys Ile Leu Pro Glu Gly Arg Thr Gly Val Thr																			
				690					695							700			
Gln Ile Gly Tyr Cys Val Gln Asp Thr Thr Ser Ala Asn Thr Thr Leu																			
				705					710							715			720
Val His Gln Thr Thr Pro Ser His Val Met Pro Pro Asn His His Gln																			
				725												730			735
Leu Ala Phe Asn Tyr Gln Glu Leu Glu His Leu Gln Thr Val Lys Asn																			
				740					745							750			
Ile Ser Pro Leu Gln Ile Leu Pro Pro Ser Gly Asp Ser Glu Gln Leu																			
				755					760							765			
Ser Asn Gly Ile Thr Val Met His Pro Ser Gly Asp Ser Asp Thr Thr																			
				770					775							780			
Met Leu Glu Ser Glu Cys Gln Ala Pro Val Gln Lys Asp Ile Lys Ile																			
				785					790							795			800
Lys Asn Ala Asp Ser Trp Lys Ser Leu Gly Lys Pro Val Lys Pro Ser																			
				805												810			815
Gly Val Met Lys Ser Ser Asp Glu Leu Phe Asn Gln Phe Arg Lys Ala																			
				820												825			830
Ala Ile Glu Lys Glu Val Lys Ala Arg Thr Gln Glu Leu Ile Arg Lys																			

835	840	845
His Leu Glu Gln Asn Thr Lys Glu Leu Lys Ala Ser Gln Glu Asn Gln		
850	855	860
Arg Asp Leu Gly Asn Gly Leu Thr Val Glu Ser Phe Ser Asn Lys Ile		
865	870	875
Gln Asn Lys Cys Ser Gly Glu Glu Gln Lys Glu His Pro Gln Ser Ser		
885	890	895
Glu Ala Gln Asp Lys Ser Lys Leu Trp Leu Leu Lys Asp Arg Asp Leu		
900	905	910
Ala Arg Pro Lys Glu Gln Glu Arg Arg Arg Arg Glu Ala Met Val Gly		
915	920	925
Thr Ile Asp Met Thr Leu Gln Ser Asp Ile Met Thr Met Phe Glu Asn		
930	935	940
Asn Phe Asp		
945		

<210> 686  
 <211> 3106  
 <212> DNA  
 <213> Homo Sapiens

<400> 686

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gtcgacaaac agctattatt gtttaaccctc ctccaccaga atataataat actaagaaaa	180
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<210> 687

<211> 1759

<212> DNA

<213> Homo Sapiens

<400> 687

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 <211> 207  
 <212> PRT  
 <213> Homo Sapiens

<400> 688  
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 35 40 45  
 Thr Glu Ala Leu Ser Val Ser Gln Glu Arg Val Gly Met Ser Leu Val  
 50 55 60  
 Ala Leu Lys Lys Ala Leu Ala Ala Ala Gly Tyr Asp Val Glu Lys Asn  
 65 70 75 80  
 Asn Ser Arg Ile Lys Leu Ser Leu Lys Ser Leu Val Asn Lys Gly Ile  
 85 90 95  
 Leu Val Gln Thr Arg Gly Thr Gly Ala Ser Gly Ser Phe Lys Leu Ser  
 100 105 110  
 Lys Lys Val Ile Pro Lys Ser Thr Arg Ser Lys Ala Lys Lys Ser Val  
 115 120 125  
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 Lys Thr Ala Lys Thr Asn Lys Arg Ala Lys Lys Pro Arg Ala Thr Thr  
 145 150 155 160  
 Pro Lys Thr Val Arg Ser Gly Arg Lys Ala Lys Gly Ala Lys Gly Lys  
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 Thr Gln His His Glu Val Asn Val Arg Lys Ala Thr Ser Lys Lys  
 195 200 205

<210> 689  
 <211> 1464  
 <212> DNA  
 <213> Homo Sapiens

<400> 689  
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<210> 690

<211> 363

<212> FRT

<213> Homo Sapiens

<400> 690

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Asp Glu Ser Thr Gly Ser Ile Ala Lys Arg Leu Gln Ser Ile Gly Thr
35 40 45
Glu Asn Thr Glu Glu Asn Arg Arg Phe Tyr Arg Gln Leu Leu Leu Thr
50 55 60
Ala Asp Asp Arg Val Asn Pro Cys Ile Gly Gly Val Ile Leu Phe His
65 70 75 80
Glu Thr Leu Tyr Gln Lys Ala Asp Asp Gly Arg Pro Phe Pro Gln Val
85 90 95
Ile Lys Ser Lys Gly Gly Val Val Gly Ile Lys Val Asp Lys Gly Val
100 105 110
Val Pro Leu Ala Gly Thr Asn Gly Glu Thr Thr Thr Gln Gly Leu Asp
115 120 125
Gly Leu Ser Glu Arg Cys Ala Gln Tyr Lys Lys Asp Gly Ala Asp Phe
130 135 140
Ala Lys Trp Arg Cys Val Leu Lys Ile Gly Glu His Thr Pro Ser Ala
145 150 155 160
Leu Ala Ile Met Glu Asn Ala Asn Val Leu Ala Arg Tyr Ala Ser Ile
165 170 175
Cys Gln Gln Asn Gly Ile Val Pro Ile Val Glu Pro Glu Ile Leu Pro
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Asp Gly Asp His Asp Leu Lys Arg Cys Gln Tyr Val Thr Glu Lys Val
195 200 205
Leu Ala Ala Val Tyr Lys Ala Leu Ser Asp His His Ile Tyr Leu Glu
210 215 220
Gly Thr Leu Leu Lys Pro Asn Met Val Thr Pro Gly His Ala Cys Thr
225 230 235 240
Gln Lys Phe Ser His Glu Glu Ile Ala Met Ala Thr Val Thr Ala Leu
245 250 255
Arg Arg Thr Val Pro Pro Ala Val Thr Gly Ile Thr Phe Leu Ser Gly
260 265 270
Gly Gln Ser Glu Glu Glu Ala Ser Ile Asn Leu Asn Ala Ile Asn Lys
275 280 285
Cys Pro Leu Leu Lys Pro Trp Ala Leu Thr Phe Ser Tyr Gly Arg Ala

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Ala Cys Gln Gly Lys Tyr Thr Pro Ser Gly Gln Ala Gly Ala Ala Ala		335
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<210> 691  
 <211> 1216  
 <212> DNA  
 <213> Homo Sapiens

<400> 691

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<210> 692  
 <211> 1958  
 <212> DNA  
 <213> Homo Sapiens

<400> 692

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<210> 693  
 <211> 505  
 <212> PRT  
 <213> Homo Sapiens

<400> 693  
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 35 40 45  
 Phe Asn Gln Asp Tyr Leu Ser Gly Met Ala Ala Asn Met Ser Gly Thr  
 50 55 60  
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 65 70 75 80  
 Gly Tyr Pro Pro Val Pro Pro Gly Gly Phe Gly Gln Pro Pro Ser Ala  
 85 90 95  
 Gln Gln Pro Val Pro Pro Tyr Gly Met Tyr Pro Pro Pro Gly Gly Asn  
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 115 120 125  
 Pro Gly Gln Pro Met Pro Pro Gly Gln Gln Pro Pro Gly Ala Tyr  
 130 135 140  
 Pro Gly Gln Pro Pro Val Thr Tyr Pro Gly Gln Pro Pro Val Pro Leu  
 145 150 155 160  
 Pro Gly Gln Gln Gln Pro Val Pro Ser Tyr Pro Gly Tyr Pro Gly Ser  
 165 170 175  
 Gly Thr Val Thr Pro Ala Val Pro Pro Thr Gln Phe Gly Ser Arg Gly  
 180 185 190  
 Thr Ile Thr Asp Ala Pro Gly Phe Asp Pro Leu Arg Asp Ala Glu Val  
 195 200 205



Leu Arg Lys Ala Met Lys Gly Phe Gly Thr Asp Glu Gln Ala Ile Ile  
 210 215 220  
 Asp Cys Leu Gly Ser Arg Ser Asn Lys Gln Arg Gln Gln Ile Leu Leu  
 225 230 235 240  
 Ser Phe Lys Thr Ala Tyr Gly Lys Asp Leu Ile Lys Asp Leu Lys Ser  
 245 250 255  
 Glu Leu Ser Gly Asn Phe Glu Lys Thr Ile Leu Ala Leu Met Lys Thr  
 260 265 270  
 Pro Val Leu Phe Asp Ile Tyr Glu Ile Lys Glu Ala Ile Lys Gly Val  
 275 280 285  
 Gly Thr Asp Glu Ala Cys Leu Ile Glu Ile Leu Ala Ser Arg Ser Asn  
 290 295 300  
 Glu His Ile Arg Glu Leu Asn Arg Ala Tyr Lys Ala Glu Phe Lys Lys  
 305 310 315 320  
 Thr Leu Glu Glu Ala Ile Arg Ser Asp Thr Ser Gly His Phe Gln Arg  
 325 330 335  
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 340 345 350  
 Asp Met Ser Leu Ala Gln Arg Asp Ala Gln Glu Leu Tyr Ala Ala Gly  
 355 360 365  
 Glu Asn Arg Leu Gly Thr Asp Glu Ser Lys Phe Asn Ala Val Leu Cys  
 370 375 380  
 Ser Arg Ser Arg Ala His Leu Val Ala Val Phe Asn Glu Tyr Gln Arg  
 385 390 395 400  
 Met Thr Gly Arg Asp Ile Glu Lys Ser Ile Cys Arg Glu Met Ser Gly  
 405 410 415  
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 420 425 430  
 Pro Ala Phe Phe Ala Glu Arg Leu Asn Lys Ala Met Arg Gly Ala Gly  
 435 440 445  
 Thr Lys Asp Arg Thr Leu Ile Arg Ile Met Val Ser Arg Ser Glu Thr  
 450 455 460  
 Asp Leu Leu Asp Ile Arg Ser Glu Tyr Lys Arg Met Tyr Gly Lys Ser  
 465 470 475 480  
 Leu Tyr His Asp Ile Ser Gly Asp Thr Ser Gly Asp Tyr Arg Lys Ile  
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&lt;210&gt; 694

&lt;211&gt; 1141

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 694

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&lt;211&gt; 288

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 695

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&lt;210&gt; 696

&lt;211&gt; 1008

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 696

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&lt;211&gt; 685

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 697

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&lt;210&gt; 698

&lt;211&gt; 1205

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 698

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<212> DNA

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&lt;213&gt; Homo Sapiens

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&lt;210&gt; 703

&lt;211&gt; 1095

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 703

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&lt;210&gt; 704

&lt;211&gt; 1968

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 704

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&lt;210&gt; 705

&lt;211&gt; 800

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 705

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&lt;210&gt; 706

&lt;211&gt; 487

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 706

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<211> 3599

<212> DNA

<213> Homo Sapiens

<400> 707

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<211> 1123

<212> PRT

<213> Homo Sapiens

<400> 708

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His	Ala	Val	Asp	Phe	Arg	Gly	Arg	Asp	Ala	Pro	Pro	Ser	Asp	Phe	Arg
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Gly	Thr	Thr	Asp	Leu	Asp	Phe	Arg	Asp	Arg	Asp	Thr	Pro	His	Ser	Asp
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290 295 300  
His Ser Gly Met Asn Val Asn Arg Arg Glu Glu Ser Thr His Asp His  
305 310 315 320  
Thr Ile Glu Arg Pro Ala Phe Gly Ile Gln Lys Gly Glu Phe Glu His  
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Ser Pro Ala Asp Phe Gln Asn Ser Gln Ser Pro Val Gln Asp Gln Asp  
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Lys Ser Gln Leu Ser Gly Arg Glu Glu Gln Ser Ser Asp Ala Gly Leu  
370 375 380  
Phe Lys Glu Glu Gly Gly Leu Asp Phe Leu Gly Arg Gln Asp Thr Asp  
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405 410 415  
Gln Met Phe Gly Tyr Gly Gln Ser Lys Ser Phe Pro Glu Gly Lys Thr  
420 425 430  
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Pro Ser Glu Glu Lys Pro Ser Arg Leu Ile Arg Leu Ser Gly Val Pro  
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Glu Asp Ala Thr Lys Glu Glu Ile Leu Asn Ala Phe Arg Thr Pro Asp  
465 470 475 480  
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485 490 495  
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500 505 510  
Gly Cys Met Glu Ala Asn Gln Gly Thr Leu Met Ile Gln Asp Lys Glu  
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Gln Pro Gln Lys Thr Ser Ile Pro Ala Pro Leu Glu Lys Gln Pro Asn  
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Tyr Val Pro Gln Asp Pro Gly Leu Pro Glu Glu Glu Glu Ile Lys Glu		
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&lt;211&gt; 3736

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 712

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&lt;210&gt; 713

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 713

Asn Val Glu Glu Xaa His Ser Phe Ser Tyr

1

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10

&lt;210&gt; 714

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

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&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 745

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&lt;210&gt; 746

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 746

Thr	Glu	Ala	Lys	Gln	Glu	Leu	Ile	Thr	Tyr
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&lt;210&gt; 747

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 747

Val	Glu	Ala	Leu	Arg	Val	Val	Lys	Ile	Leu
1				5					10

&lt;210&gt; 748

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 748

Gly	Glu	Tyr	Gly	Xaa	Gly	Asp	Ser	Asp	Tyr
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&lt;210&gt; 749

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 749

Leu	Glu	Arg	Arg	Glu	Arg	Glu	Gly	Lys	Phe
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&lt;210&gt; 750

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 750

Arg	Gln	Asp	Gly	Glu	Ser	Lys	Thr	Ile	Met
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&lt;210&gt; 751

&lt;211&gt; 10

&lt;212&gt; PRT

<213> Homo Sapiens

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&lt;400&gt; 794

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&lt;210&gt; 795

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 795

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&lt;210&gt; 796

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 796

Thr Pro Pro Glu Val Ile Val Glu Val Leu  
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&lt;210&gt; 797

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 797

Tyr Gly Phe Ile Asp Leu Asp Ser His Val  
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&lt;210&gt; 798

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 798

Arg Gln Phe Pro Xaa Asn Lys Glu Val Leu  
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&lt;210&gt; 799

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&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 799

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&lt;210&gt; 800

&lt;211&gt; 364

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 800

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50     55     60
Thr Ala Asp Asp Arg Val Asn Pro Cys Ile Gly Val Ile Leu Phe
65     70     75     80
His Glu Thr Leu Tyr Gln Lys Ala Asp Asp Gly Arg Pro Phe Pro Gln
85     90     95
Val Ile Lys Ser Lys Gly Gly Val Val Gly Ile Lys Val Asp Lys Gly
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Asp Gly Leu Ser Glu Arg Cys Ala Gln Tyr Lys Lys Asp Gly Ala Asp
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Phe Ala Lys Trp Arg Cys Val Leu Lys Ile Gly Glu His Thr Pro Ser
145    150    155    160
Ala Leu Ala Ile Met Glu Asn Ala Asn Val Leu Ala Arg Tyr Ala Ser
165    170    175
Ile Cys Gln Gln Asn Gly Ile Val Pro Ile Val Glu Pro Glu Ile Leu
180    185    190
Pro Asp Gly Asp His Asp Leu Lys Arg Cys Gln Tyr Val Thr Glu Lys
195    200    205
Val Leu Ala Ala Val Tyr Lys Ala Leu Ser Asp His His Ile Tyr Leu
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Glu Gly Thr Leu Leu Lys Pro Asn Met Val Thr Pro Gly His Ala Cys
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&lt;210&gt; 802

&lt;211&gt; 429

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 802

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35 40 45
Pro Pro Thr Tyr Pro Thr Lys Tyr Phe Gly Cys Glu Leu Gly Ala Gln
50 55 60
Thr Gln Phe Asp Val Lys Asn Asp Arg Tyr Ile Val Asn Gly Ser His
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Glu Ala Asn Lys Leu Gln Asp Met Leu Asp Gly Phe Ile Lys Lys Phe
85 90 95
Val Leu Cys Pro Glu Cys Glu Asn Pro Glu Thr Asp Leu His Val Asn
100 105 110
Pro Lys Lys Gln Thr Ile Gly Asn Ser Cys Lys Ala Cys Gly Tyr Arg
115 120 125
Gly Met Leu Asp Thr His His Lys Leu Cys Thr Phe Ile Leu Lys Asn
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<213> Homo Sapiens
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<400> 803

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&lt;210&gt; 804

&lt;211&gt; 609

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 804

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His Arg Phe Lys Asp Leu Gly Glu Asn Phe Lys Ala Leu Val Leu
 35             40             45
Ile Ala Phe Ala Gln Tyr Leu Gln Gln Cys Pro Phe Glu Asp His Val
 50             55             60
Lys Leu Val Asn Glu Val Thr Glu Phe Ala Lys Thr Cys Val Ala Asp
 65             70             75             80
Glu Ser Ala Glu Asn Cys Asp Lys Ser Leu His Thr Leu Phe Gly Asp
 85             90             95
Lys Leu Cys Thr Val Ala Thr Leu Arg Glu Thr Tyr Gly Glu Met Ala
100            105            110
Asp Cys Cys Ala Lys Gln Glu Pro Glu Arg Asn Glu Cys Phe Leu Gln
115            120            125
His Lys Asp Asp Asn Pro Asn Leu Pro Arg Leu Val Arg Pro Glu Val
130            135            140
Asp Val Met Cys Thr Ala Phe His Asp Asn Glu Glu Thr Phe Leu Lys
145            150            155            160
Lys Tyr Leu Tyr Glu Ile Ala Arg Arg His Pro Tyr Phe Tyr Ala Pro
165            170            175
Glu Leu Leu Phe Phe Ala Lys Arg Tyr Lys Ala Ala Phe Thr Glu Cys
180            185            190
Cys Gln Ala Ala Asp Lys Ala Ala Cys Leu Leu Pro Lys Leu Asp Glu

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195	200	205
Leu Arg Asp Glu Gly Lys	Ala Ser Ser Ala Lys	Gln Arg Leu Lys Cys
210	215	220
Ala Ser Leu Gln Lys Phe	Gly Glu Arg Ala Phe	Lys Ala Trp Ala Val
225	230	235
Ala Arg Leu Ser Gln Arg	Phe Pro Lys Ala Glu	Phe Ala Glu Val Ser
245	250	255
Lys Leu Val Thr Asp Leu	Thr Lys Val His Thr	Glu Cys Cys His Gly
260	265	270
Asp Leu Leu Glu Cys Ala	Asp Asp Arg Ala Asp	Leu Ala Lys Tyr Ile
275	280	285
Cys Glu Asn Gln Asp Ser	Ile Ser Ser Lys Leu	Lys Glu Cys Cys Glu
290	295	300
Lys Pro Leu Leu Glu Lys	Ser His Cys Ile Ala	Glu Val Glu Asn Asp
305	310	315
Glu Met Pro Ala Asp Leu	Pro Ser Leu Ala Ala	Asp Phe Val Glu Ser
325	330	335
Lys Asp Val Cys Lys Asn	Tyr Ala Glu Ala Lys	Asp Val Phe Leu Gly
340	345	350
Met Phe Leu Tyr Glu Tyr	Ala Arg Arg His Pro	Asp Tyr Ser Val Val
355	360	365
Leu Leu Leu Arg Leu Ala	Lys Thr Tyr Glu Thr	Thr Leu Glu Lys Cys
370	375	380
Cys Ala Ala Ala Asp Pro	His Glu Cys Tyr Ala	Lys Val Phe Asp Glu
385	390	395
Phe Lys Pro Leu Val Glu	Glu Glu Pro Gln Asn	Leu Ile Lys Gln Asn Cys
405	410	415
Glu Leu Phe Lys Gln Leu	Gly Glu Tyr Lys Phe	Gln Asn Ala Leu Leu
420	425	430
Val Arg Tyr Thr Lys Lys	Val Pro Gln Val Ser	Thr Pro Thr Leu Val
435	440	445
Glu Val Ser Arg Asn Leu	Gly Lys Val Gly Ser	Lys Cys Cys Lys His
450	455	460
Pro Glu Ala Lys Arg Met	Pro Cys Ala Glu Asp	Tyr Leu Ser Val Val
465	470	475
Leu Asn Gln Leu Cys Val	Leu His Glu Lys Thr	Pro Val Ser Asp Arg
485	490	495
Val Thr Lys Cys Cys Thr	Glu Ser Leu Val Asn	Arg Arg Pro Cys Phe
500	505	510
Ser Ala Leu Glu Val Asp	Glu Thr Tyr Val Pro	Lys Glu Phe Asn Ala
515	520	525
Glu Thr Phe Thr Phe His	Ala Asp Ile Cys Thr	Leu Ser Glu Lys Glu
530	535	540
Arg Gln Ile Lys Lys Gln	Thr Ala Leu Val Glu	Leu Val Lys His Lys
545	550	555
Pro Lys Ala Thr Lys Glu	Gln Leu Lys Ala Val	Met Asp Asp Phe Ala
565	570	575
Ala Phe Val Glu Lys Cys	Cys Lys Ala Asp Asp	Lys Glu Thr Cys Phe
580	585	590
Ala Glu Glu Gly Lys Lys	Leu Val Ala Ala Ser	Gln Ala Ala Leu Gly
595	600	605
Leu		

&lt;210&gt; 805

&lt;211&gt; 1356

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 805

```

acaaacacca aggagtggag gtcagagtgt cactttttttg ttttcttttt gaaagatcat      60
tcgagaaaca cgtcactgat ctccctgcg accatgtctt ccattaagat tgagtgtgtt      120
ttgccagaga actgccggtg tggtagtct ccagtatggg aggaagtgtc caactctctg      180
ctctttgtag acattcctgc aaaaaagggt tgccggtggg attcattcac caagcaagta      240
cagcgagtga ccatggatgc cccagtcagc tccgtggctc ttcgccagtc gggaggctat      300
gttgccacca ttggaacaaa gttctgtgct ttgaactgga aagaacaatc agcagttgtc      360
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gccgggaggt actttgctgg caccatggct gaggaacag ctccagcagt tcttgagcgg      480
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gtactataga agggcgaaga atcgttcaac tgtcaatcag cctcttgatt ctttgtaa      1260
tgccaggggt ggtgggtaca tatctcttct tgattctgca tttcatactt aactatatta      1320
aagcttcaag gaacaataaa tagtaacctg gtaatg      1356

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&lt;210&gt; 806

&lt;211&gt; 299

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 806

```

Met Ser Ser Ile Lys Ile Glu Cys Val Leu Pro Glu Asn Cys Arg Cys
 1             5             10             15
Gly Glu Ser Pro Val Trp Glu Glu Val Ser Asn Ser Leu Leu Phe Val
      20             25             30
Asp Ile Pro Ala Lys Lys Val Cys Arg Trp Asp Ser Phe Thr Lys Gln
      35             40             45
Val Gln Arg Val Thr Met Asp Ala Pro Val Ser Ser Val Ala Leu Arg
      50             55             60
Gln Ser Gly Gly Tyr Val Ala Thr Ile Gly Thr Lys Phe Cys Ala Leu
65             70             75             80
Asn Trp Lys Glu Gln Ser Ala Val Val Leu Ala Thr Val Asp Asn Asp
      85             90             95
Lys Lys Asn Asn Arg Phe Asn Asp Gly Lys Val Asp Pro Ala Gly Arg
      100            105            110
Tyr Phe Ala Gly Thr Met Ala Glu Glu Thr Ala Pro Ala Val Leu Glu
      115            120            125
Arg His Gln Gly Ala Leu Tyr Ser Leu Phe Pro Asp His His Val Lys
      130            135            140
Lys Tyr Phe Asp Gln Val Asp Ile Ser Asn Gly Leu Asp Trp Ser Leu
145            150            155            160

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Asp His Lys Ile Phe Tyr Tyr Ile Asp Ser Leu Ser Tyr Ser Val Asp  
 165 170 175  
 Ala Phe Asp Tyr Asp Leu Gln Thr Gly Gln Ile Ser Asn Arg Arg Ser  
 180 185 190  
 Val Tyr Lys Leu Glu Lys Glu Glu Gln Ile Pro Asp Gly Met Cys Ile  
 195 200 205  
 Asp Ala Glu Gly Lys Leu Trp Val Ala Cys Tyr Asn Gly Gly Arg Val  
 210 215 220  
 Ile Arg Leu Asp Pro Val Thr Gly Lys Arg Leu Gln Thr Val Lys Leu  
 225 230 235 240  
 Pro Val Asp Lys Thr Ser Cys Cys Phe Gly Gly Lys Asn Tyr Ser  
 245 250 255  
 Glu Met Tyr Val Thr Cys Ala Arg Asp Gly Met Asp Pro Glu Gly Leu  
 260 265 270  
 Leu Arg Gln Pro Glu Ala Gly Gly Ile Phe Lys Ile Thr Gly Leu Gly  
 275 280 285  
 Val Lys Gly Ile Ala Pro Tyr Ser Tyr Ala Gly  
 290 295

&lt;210&gt; 807

&lt;211&gt; 1980

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 807

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gggaatcttg	aatgtttgaa	tgccatcctt	atacatggag	ttgatattac	aaccagtgc	300
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catgacgcag	caatggcaga	ctgtccttcc	agcatacagc	tgctttgtga	ccatggggcc	480
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caaaacagaa	ctgctctcat	gcttgggtgc	gagtatgggt	gtaaggatgc	tgtagaagtc	660
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actgaaaaat ttgagagcat gaagagctta ttatcaagcg aagtaaata gaaggtgaaa 1860  
 aaaattggag agacagaaaag agagtatgaa aaatcactta ctgaaatcag acagttaagg 1920  
 agagagcttg agaattgtaa ggcgcaaaact tcctcagcat gtcaagccag aggagcatga 1980

&lt;210&gt; 808

&lt;211&gt; 659

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 808

Met Pro Ser Ser Leu Leu Ala Thr Arg Asn Gln Ile Leu Ser Met  
 1 5 10 15  
 Met Asn Cys Trp Phe Ser Cys Ala Pro Lys Asn Arg His Ala Ala Asp  
 20 25 30  
 Trp Asn Lys Tyr Asp Asp Arg Leu Met Lys Ala Ala Glu Arg Gly Asp  
 35 40 45  
 Val Glu Lys Val Ser Ser Ile Leu Ala Lys Lys Gly Ile Asn Pro Gly  
 50 55 60  
 Lys Leu Asp Val Glu Gly Arg Ser Ala Phe His Val Val Ala Ser Lys  
 65 70 75 80  
 Gly Asn Leu Glu Cys Leu Asn Ala Ile Leu Ile His Gly Val Asp Ile  
 85 90 95  
 Thr Thr Ser Asp Thr Ala Gly Arg Asn Ala Leu His Leu Ala Ala Lys  
 100 105 110  
 Tyr Gly His Ala Leu Cys Leu Gln Lys Leu Leu Gln Tyr Asn Cys Pro  
 115 120 125  
 Thr Glu His Ala Asp Leu Gln Gly Arg Thr Ala Leu His Asp Ala Ala  
 130 135 140  
 Met Ala Asp Cys Pro Ser Ile Gln Leu Leu Cys Asp His Gly Ala  
 145 150 155 160  
 Ser Val Asn Ala Lys Asp Val Asp Gly Arg Thr Pro Leu Val Leu Ala  
 165 170 175  
 Thr Gln Met Cys Arg Pro Ala Ile Cys Gln Leu Leu Ile Asp Arg Gly  
 180 185 190  
 Ala Glu Ile Asn Ser Arg Asp Lys Gln Asn Arg Thr Ala Leu Met Leu  
 195 200 205  
 Gly Cys Glu Tyr Gly Cys Lys Asp Ala Val Glu Val Leu Leu Lys Asn  
 210 215 220  
 Gly Ala Asp Val Ser Leu Leu Asp Ala Leu Gly His Asp Ser Ser Tyr  
 225 230 235 240  
 Tyr Ala Arg Ile Gly Asp Asn Leu Asp Ile Leu Thr Leu Leu Lys Thr  
 245 250 255  
 Ala Ser Glu Asn Thr Asn Lys Gly Arg Glu Leu Trp Lys Lys Gly Pro  
 260 265 270  
 Ser Leu Gln Gln Arg Asn Leu Pro Tyr Met Leu Asp Glu Val Asn Val  
 275 280 285  
 Lys Ser Ser Gln Arg Glu His Arg Asn Ile Gln Glu Leu Glu Ile Glu  
 290 295 300  
 Asn Glu Asp Leu Lys Asp Arg Leu Arg Lys Ile Gln Gln Glu Gln Arg  
 305 310 315 320  
 Ile Leu Leu Asp Lys Val Asn Gly Leu Gln Leu Gln Leu Asn Glu Glu  
 325 330 335  
 Val Met Val Ala Asp Asp Leu Glu Ser Glu Lys Glu Lys Leu Lys Ser  
 340 345 350  
 Leu Leu Val Ala Lys Glu Lys Gln His Glu Glu Ser Leu Arg Thr Ile

355	360	365
Glu Ser Leu Lys Asn Arg Phe Lys Tyr Phe Glu Cys Thr Ser Pro Gly		
370	375	380
Val Pro Ala His Met Gln Ser Arg Ser Met Leu Arg Pro Leu Glu Leu		
385	390	395
Ser Leu Pro Asn Gln Thr Ser Tyr Ser Glu Asn Asp Leu Leu Lys Lys		
405	410	415
Glu Leu Glu Ala Met Arg Thr Phe Cys Glu Ser Ala Lys Gln Asp Arg		
420	425	430
Leu Lys Leu Gln Asn Gly Val Ala His Lys Val Ala Glu Cys Lys Ala		
435	440	445
Leu Gly Leu Glu Cys Glu Arg Ile Lys Glu Asp Ser Asp Glu Gln Ile		
450	455	460
Lys Gln Leu Glu Asp Ala Leu Lys Asp Val Gln Lys Arg Met Tyr Glu		
465	470	475
Ser Glu Gly Lys Val Lys Gln Met Gln Thr His Phe Leu Ala Leu Lys		
485	490	495
Glu His Leu Thr Ser Glu Ala Ala Ile Gly Asn His Arg Leu Met Glu		
500	505	510
Glu Leu Lys Asp Gln Leu Lys Asp Met Lys Ala Lys Tyr Glu Gly Ala		
515	520	525
Ser Ala Glu Val Gly Lys Leu Arg Asn Gln Ile Lys Gln Asn Glu Leu		
530	535	540
Leu Val Glu Gln Phe Arg Arg Asp Glu Gly Lys Leu Val Glu Glu Asn		
545	550	555
Lys Arg Leu Gln Lys Glu Leu Ser Met Cys Glu Thr Glu Arg Asp Lys		
565	570	575
Lys Gly Arg Arg Val Ala Glu Val Glu Gly Gln Val Lys Glu Leu Leu		
580	585	590
Ala Lys Leu Thr Leu Ser Val Pro Thr Glu Lys Phe Glu Ser Met Lys		
595	600	605
Ser Leu Leu Ser Ser Glu Val Asn Glu Lys Val Lys Lys Ile Gly Glu		
610	615	620
Thr Glu Arg Glu Tyr Glu Lys Ser Leu Thr Glu Ile Arg Gln Leu Arg		
625	630	635
Arg Glu Leu Glu Asn Cys Lys Arg Gln Thr Ser Ser Ala Cys Gln Ala		
645	650	655
Arg Gly Ala		

&lt;210&gt; 809

&lt;211&gt; 1725

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 809

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atctccgtca atggctctgt gcagctgtcc tacatcagct tccagaaccc ccgcacagtc	540

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&lt;210&gt; 810

&lt;211&gt; 355

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 810

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Met Ala Phe Ser Gly Ser Gln Ala Pro Tyr Leu Ser Pro Ala Val Pro
1          5          10          15
Phe Ser Gly Thr Ile Gln Gly Gly Leu Gln Asp Gly Leu Gln Ile Thr
20          25          30
Val Asn Gly Thr Val Leu Ser Ser Ser Gly Thr Arg Phe Ala Val Asn
35          40          45
Phe Gln Thr Gly Phe Ser Gly Asn Asp Ile Ala Phe His Phe Asn Pro
50          55          60
Arg Phe Glu Asp Gly Gly Tyr Val Val Cys Asn Thr Arg Gln Asn Gly
65          70          75          80
Ser Trp Gly Pro Glu Glu Arg Lys Thr His Met Pro Phe Gln Lys Gly
85          90          95
Met Pro Phe Asp Leu Cys Phe Leu Val Gln Ser Ser Asp Phe Lys Val
100         105         110
Met Val Asn Gly Ile Leu Phe Val Gln Tyr Phe His Arg Val Pro Phe
115         120         125
His Arg Val Asp Thr Ile Ser Val Asn Gly Ser Val Gln Leu Ser Tyr
130         135         140
Ile Ser Phe Gln Asn Pro Arg Thr Val Pro Val Gln Pro Ala Phe Ser
145         150         155         160
Thr Val Pro Phe Ser Gln Pro Val Cys Phe Pro Pro Arg Pro Arg Gly
165         170         175
Arg Arg Gln Lys Pro Pro Gly Val Trp Pro Ala Asn Pro Ala Pro Ile
180         185         190
Thr Gln Thr Val Ile His Thr Val Gln Ser Ala Pro Gly Gln Met Phe
195         200         205
Ser Thr Pro Ala Ile Pro Pro Met Met Tyr Pro His Pro Ala Tyr Pro
210         215         220

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Met Pro Phe Ile Thr Thr Ile Leu Gly Gly Leu Tyr Pro Ser Lys Ser  
 225 230 235 240  
 Ile Leu Leu Ser Gly Thr Val Leu Pro Ser Ala Gln Arg Phe His Ile  
 245 250 255  
 Asn Leu Cys Ser Gly Asn His Ile Ala Phe His Leu Asn Pro Arg Phe  
 260 265 270  
 Asp Glu Asn Ala Val Val Arg Asn Thr Gln Ile Asp Asn Ser Trp Gly  
 275 280 285  
 Ser Glu Glu Arg Ser Leu Pro Arg Lys Met Pro Phe Val Arg Gly Gln  
 290 295 300  
 Ser Phe Ser Val Trp Ile Leu Cys Glu Ala His Cys Leu Lys Val Ala  
 305 310 315 320  
 Val Asp Gly Gln His Leu Phe Glu Tyr Tyr His Arg Leu Arg Asn Leu  
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 Pro Thr Ile Asn Arg Leu Glu Val Gly Gly Asp Ile Gln Leu Thr His  
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 Val Gln Thr  
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<210> 811  
 <211> 1022  
 <212> DNA  
 <213> Homo Sapiens

<400> 811  
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 aagaagaggc cctgggcctg gtgggtgcac aggtcctac tactgaggag caggaggctg 180  
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 ca 1022

<210> 812  
 <211> 317  
 <212> PRT  
 <213> Homo Sapiens

<400> 812  
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 20 25 30  
 Thr Glu Glu Gln Glu Ala Ala Val Ser Ser Ser Ser Pro Leu Val Leu

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<210> 813
<211> 5175
<212> DNA
<213> Homo Sapiens
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<400> 813							
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&lt;210&gt; 814

&lt;211&gt; 1392

&lt;212&gt; PRT

&lt;213&gt; Homo Sapiens

&lt;400&gt; 814

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Met Ser Met Leu Lys Pro Ser Gly Leu Lys Ala Pro Thr Lys Ile Leu
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Lys Pro Gly Ser Thr Ala Leu Lys Thr Pro Thr Ala Val Val Ala Pro
20          25          30
Val Glu Lys Thr Ile Ser Ser Glu Lys Ala Ser Ser Thr Pro Ser Ser
35          40          45
Glu Thr Gln Glu Glu Phe Val Asp Asp Phe Arg Val Gly Glu Arg Val
50          55          60
Trp Val Asn Gly Asn Lys Pro Gly Phe Ile Gln Phe Leu Gly Glu Thr
65          70          75          80
Gln Phe Ala Pro Gly Gln Trp Ala Gly Ile Val Leu Asp Glu Pro Ile
85          90          95
Gly Lys Asn Asp Gly Ser Val Ala Gly Val Arg Tyr Phe Gln Cys Glu
100         105         110
Pro Leu Lys Gly Ile Phe Thr Arg Pro Ser Lys Leu Thr Arg Lys Val
115         120         125
Gln Ala Glu Asp Glu Ala Asn Gly Leu Gln Thr Thr Pro Ala Ser Arg
130         135         140
Ala Thr Ser Pro Leu Cys Thr Ser Thr Ala Ser Met Val Ser Ser Ser
145         150         155         160
Pro Ser Thr Pro Ser Asn Ile Pro Gln Lys Pro Ser Gln Pro Ala Ala
165         170         175
Lys Glu Pro Ser Ala Thr Pro Pro Ile Ser Asn Leu Thr Lys Thr Ala
180         185         190
Ser Glu Ser Ile Ser Asn Leu Ser Glu Ala Gly Ser Ile Lys Lys Gly
195         200         205
Glu Arg Glu Leu Lys Ile Gly Asp Arg Val Leu Val Gly Gly Thr Lys

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Val Ala Gly Thr Arg Tyr Phe Gln Cys Gln Pro Lys Tyr Gly Leu Phe		255
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Ala Pro Val His Lys Val Thr Lys Ile Gly Phe Pro Ser Thr Thr Pro		270
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Ala Lys Ala Lys Ala Asn Ala Val Arg Arg Val Met Ala Thr Thr Ser		285
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Ala Ser Leu Lys Arg Ser Pro Ser Ala Ser Ser Leu Ser Ser Met Ser		300
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Ser Val Ala Ser Ser Val Ser Ser Arg Pro Ser Arg Thr Gly Leu Leu		320
	325	330
Thr Glu Thr Ser Ser Arg Tyr Ala Arg Lys Ile Ser Gly Thr Thr Ala		335
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Leu Gln Glu Ala Leu Lys Glu Lys Gln Gln His Ile Glu Gln Leu Leu		350
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Ala Glu Arg Asp Leu Glu Arg Ala Glu Val Ala Lys Ala Thr Ser His		365
	370	375
Val Gly Glu Ile Glu Gln Glu Leu Ala Leu Ala Arg Asp Gly His Asp		380
385	390	395
Gln His Val Leu Glu Leu Glu Ala Lys Met Asp Gln Leu Arg Thr Met		400
	405	410
Val Glu Ala Ala Asp Arg Glu Lys Val Glu Leu Leu Asn Gln Leu Glu		415
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Glu Glu Lys Arg Lys Val Glu Asp Leu Gln Phe Arg Val Glu Glu Glu		430
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Ser Ile Thr Lys Gly Asp Leu Glu Val Ala Thr Val Ser Glu Lys Ser		445
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Arg Ile Met Glu Leu Glu Lys Asp Leu Ala Leu Arg Val Gln Glu Val		460
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Ala Glu Leu Arg Arg Arg Leu Glu Ser Asn Lys Pro Ala Gly Asp Val		480
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Asp Met Ser Leu Ser Leu Leu Gln Glu Ile Ser Ser Leu Gln Glu Lys		495
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Leu Glu Val Thr Arg Thr Asp His Gln Arg Glu Ile Thr Ser Leu Lys		510
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Glu His Phe Gly Ala Arg Glu Glu Thr His Gln Lys Glu Ile Lys Ala		525
	530	535
Leu Tyr Thr Ala Thr Glu Lys Leu Ser Lys Glu Asn Glu Ser Leu Lys		540
545	550	555
Ser Lys Leu Glu His Ala Asn Lys Glu Asn Ser Asp Val Ile Ala Leu		560
	565	570
Trp Lys Ser Lys Leu Glu Thr Ala Ile Ala Ser His Gln Gln Ala Met		575
	580	585
Glu Glu Leu Lys Val Ser Phe Ser Lys Gly Leu Gly Thr Glu Thr Ala		590
	595	600
Glu Phe Ala Glu Leu Lys Thr Gln Ile Glu Lys Met Arg Leu Asp Tyr		605
	610	615
Gln His Glu Ile Glu Asn Leu Gln Asn Gln Gln Asp Ser Glu Arg Ala		620
625	630	635
Ala His Ala Lys Glu Met Glu Ala Leu Arg Ala Lys Leu Met Lys Val		640
	645	650
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Ile Lys Glu Lys Glu Asn Ser Leu Glu Ala Ile Arg Ser Lys Leu Asp  
 660 665 670  
 Lys Ala Glu Asp Gln His Leu Val Glu Met Glu Asp Thr Leu Asn Lys  
 675 680 685  
 Leu Gln Glu Ala Glu Ile Lys Val Lys Glu Leu Glu Val Leu Gln Ala  
 690 695 700  
 Lys Cys Asn Glu Gln Thr Lys Val Ile Asp Asn Phe Thr Ser Gln Leu  
 705 710 715 720  
 Lys Ala Thr Glu Glu Lys Leu Leu Asp Leu Asp Ala Leu Arg Lys Ala  
 725 730 735  
 Ser Ser Glu Gly Lys Ser Glu Met Lys Lys Leu Arg Gln Gln Leu Glu  
 740 745 750  
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 Ser Ser Lys Ala Ser Ser Ile Thr Arg Glu Leu Gln Gly Arg Glu Leu  
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 Glu Lys Asp Glu Arg Glu Glu Gln Leu Ile Lys Ala Lys Glu Lys Leu  
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 930 935 940  
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 945 950 955 960  
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 965 970 975  
 Gln Glu Leu Lys Ala Arg Tyr Glu Arg Ala Thr Ser Glu Thr Lys Thr  
 980 985 990  
 Lys His Glu Glu Ile Leu Gln Asn Leu Gln Lys Thr Leu Leu Asp Thr  
 995 1000 1005  
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Ala Glu Glu Leu Gly Arg Ser Arg Asp Glu Val Thr Ser His Gln Lys		1135
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	1155	1160
Lys Arg Glu Ser Lys Phe Ile Lys Asp Ala Asp Glu Glu Lys Ala Ser		1165
	1170	1175
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	1220	1225
Asp Lys Val Lys Leu Glu Leu Lys Val Lys Asn Leu Glu Leu Gln Leu		1230
	1235	1240
Lys Glu Asn Lys Arg Gln Leu Ser Ser Ser Ser Gly Asn Thr Asp Thr		1245
	1250	1255
Gln Ala Asp Glu Asp Glu Arg Ala Gln Glu Ser Gln Ile Asp Phe Leu		1260
1265	1270	1275
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	1285	1290
Lys Val Glu Met Met Ser Glu Ala Ala Leu Asn Gly Asn Gly Asp Asp		1295
	1300	1305
Leu Asn Asn Tyr Asp Ser Asp Asp Gln Glu Lys Gln Ser Lys Lys Lys		1310
	1315	1320
Pro Arg Leu Phe Cys Asp Ile Cys Asp Cys Phe Asp Leu His Asp Thr		1325
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Glu Asp Cys Pro Thr Gln Ala Gln Met Ser Glu Asp Pro Pro His Ser		1340
1345	1350	1355
Thr His His Gly Ser Arg Gly Glu Glu Arg Pro Tyr Cys Glu Ile Cys		136
	1365	1370
Glu Met Phe Gly His Trp Ala Thr Asn Cys Asn Asp Asp Glu Thr Phe		1375
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		1390

&lt;210&gt; 815

&lt;211&gt; 647

&lt;212&gt; DNA

&lt;213&gt; Homo Sapiens

&lt;400&gt; 815

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 <211> 152  
 <212> PRT  
 <213> Homo Sapiens

<400> 816  
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 Phe Arg Leu Val Ala Met Lys Phe Leu Arg Ala Ser Glu Glu His Leu  
 35 40 45  
 Lys Gln His Tyr Ile Asp Leu Lys Asp Arg Pro Phe Phe Pro Gly Leu  
 50 55 60  
 Val Lys Tyr Met Asn Ser Gly Pro Val Val Ala Met Val Trp Glu Gly  
 65 70 75 80  
 Leu Asn Val Val Lys Thr Gly Arg Val Met Leu Gly Glu Thr Asn Pro  
 85 90 95  
 Ala Asp Ser Lys Pro Gly Thr Ile Arg Gly Asp Phe Cys Ile Gln Val  
 100 105 110  
 Gly Arg Asn Ile Ile His Gly Ser Asp Ser Val Lys Ser Ala Glu Lys  
 115 120 125  
 Glu Ile Ser Leu Trp Phe Lys Pro Glu Glu Leu Val Asp Tyr Lys Ser  
 130 135 140  
 Cys Ala His Asp Trp Val Tyr Glu  
 145 150